

Historic, archived document

Do not assume content reflects current
scientific knowledge, policies, or practices.



serre
67
c78

VOL. 13 INDEX

1963

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY

JUN 5 - 1964

CURRENT SERIAL RECORDS

Cooperative ECONOMIC INSECT REPORT

Issued by

PLANT PEST CONTROL DIVISION

AGRICULTURAL RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

PLANT PEST CONTROL DIVISION

SURVEY AND DETECTION OPERATIONS

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearinghouse and does not assume responsibility for accuracy of the material.

Reports and inquiries pertaining to this release should be mailed to:

Survey and Detection Operations
Plant Pest Control Division
Agricultural Research Service
United States Department of Agriculture
Federal Center Building
Hyattsville, Maryland 20781

INTRODUCTION

The explanations that follow will aid in using the 1963 index.

1. Page numbers underlined represent references to the "Summary of Insect Conditions in the United States - 1962."
2. Page numbers in parentheses represent loss estimates.
3. The small ° that follows the common name of certain species in the index indicates that the name is not listed in the "Common Names of Insects" as approved by the Entomological Society of America. However, most of these common names are of foreign species, and the common names used in the Cooperative Economic Insect Report were taken from literature sources from a country or countries where the species occurs.
4. Complete cross indexing of page references of insects with common names is not used. The "Scientific Names" should be used to locate all page references, with the exception of those insects or groups of insects where the scientific names were not reported. In these cases, the page reference will be listed in the "Common Names."
5. A combination of both common and scientific name of an insect or pest may not appear on the page referenced, but one or the other will be present.
6. A list of corrections for volume 13, not previously published, is on pages and

SPECIAL REPORTS

Alfalfa weevil - spring and summer observations on the alfalfa weevil and other forage crop insects in Massachusetts, 1963 1095-1096. Alfalfa weevil in the eastern U.S. 1304-1306. Survey to determine the oviposition and hatching records of the alfalfa weevil in Massachusetts during the fall of 1963 1417

Analysis of insect and mite infestations found in produce from the United States examined in ports in Great Britain in 1962 628-630

Asparagus beetles - winter survey in New Jersey 398

Beet leafhopper - survey in desert areas of southern Utah and Nevada, southeastern California and central Arizona, 1963 105; second survey in desert areas of southern Utah and Nevada, southeastern California and central Arizona, 1963 282; surveys in Texas and New Mexico and in Kansas, 1963 398; survey in Idaho, 1963 520

Bluetongue, incidence as reported in the U.S. during calendar year 1962 1057-1058

Boll weevil - hibernation surveys in Texas and Tennessee, fall 1962 4; North Carolina, South Carolina, Tennessee, Mississippi, Louisiana and Texas, fall 1963 1413-1415. Survival surveys, spring 1963, in North Carolina, South Carolina, Mississippi, Louisiana and Texas 319-320; in McNairy County, Tennessee 399

Cereal leaf beetle - field method for separation from similar appearing species of *Lema* in the U.S. 774

Cooperative survey entomologists 8

Eriophyid mites found on Florida citrus 1341-1342, 1400

European corn borer - abundance and distribution, 1962 33-40; estimates of damage to grain corn in the U.S., 1962 537-538

Grasshopper adult survey, fall 1962 - following page 24

Hawaiian insects notes 17, 186, 290, 535, 698, 773, 971, 1093, 1223, 1323, 1381, 1416

Hessian fly survey in Illinois 906

Highlights of the occurrence of insects and other arthropods in Canada, 1963 1401

Insect detection in the United States - 1962 18-22

Insects collected from Texas stored grains during period August 1, 1962 - June 1, 1963 1228-1234

Insects not known to occur in the United States 23, 59, 98, 275, 569, 897, 1132, 1169, 1285, 1325, 1357, 1389

Interceptions of special interest at U.S. ports of entry 55, 97, 260, 409, 502, 807, 895, 970, 1064, 1249, 1340, 1418

Light trap collections 47, 90, 108, 119, 143, 185, 223, 259, 289, 326, 370, 407, 443, 473, 501, 534, 567, 568, 591, 626, 627, 661, 662, 696, 697, 734, 735, 771, 772, 805, 806, 841, 842, 876, 877, 884, 934, 935, 936, 937, 938, 967, 968, 969, 1001, 1002, 1032, 1033, 1034, 1062, 1063, 1090, 1091, 1092, 1123, 1124, 1160, 1161, 1190, 1191, 1221, 1222, 1251, 1252, 1275, 1276, 1303, 1321, 1322, 1339, 1356, 1370, 1380, 1412

Losses (1962) - estimated losses and production costs attributed to insects and related arthropods attacking: alfalfa - Colorado 973, Illinois 893, Maryland 1166, Oklahoma 1279, Wyoming 444; alfalfa hay - New Mexico 1101; alfalfa seed - Wyoming 445; apples - Colorado 1168; barley - Colorado 1035, North Dakota 593, Wyoming 505; beans - Colorado (dry) 1038, Wyoming 449; beef - Oklahoma 1281; cabbage - Colorado 1065; cantaloup - Colorado 1070; cattle (all) - North Dakota 598; clover-timothy - Maryland 1165; corn - Colorado 1036, Illinois 890-891; corn (grain) - Kansas 1129, 1130 and 1193, Maryland 1164, Ohio (1961) 272, (1962) 1382, Wyoming 446; corn (silage) - Wyoming 447; cotton - Alabama 1224, Arkansas 809, New Mexico 1102, Oklahoma 1280, Texas 1257; dairy cows - Oklahoma 1282; flax - North Dakota 596; grain sorghum - Oklahoma 1277, Texas 1255; hay - Illinois 885-887 and 889, North Dakota 595, Ohio (1961) 274, (1962) 1386; lettuce - Colorado 1066; oats - North Dakota 506, Ohio 1384, Wyoming 503; onions - Colorado 1100; pasture-rangeland - Colorado 972; peaches - Colorado 1097; peanuts - Alabama 1225, Georgia 1194; pears - Colorado 1098; potatoes - Colorado 1067, North Dakota 597, Wyoming 450; rice - Arkansas 810; sorghum - Colorado 1037, Kansas 1131; soybeans - Alabama 1226, Arkansas 894, Illinois 888, Ohio (1961) 271; soybeans for beans - Maryland 1163, Ohio 1385; sugar beets - Colorado 1099, North Dakota 594, Ohio 1387, Wyoming 448; timothy - Maryland 1165;

tobacco - Maryland 1167, Ohio 1388; tomatoes - Colorado 1068; tomatoes (processing) - Maryland 1162; watermelon (seed) - Colorado 1069; wheat - Colorado 974, Illinois 892, Kansas 1125-1128 and 1192, North Dakota 592, Ohio (1961) 273, (1962) 1383, Oklahoma 1278, Texas 1256, Wyoming 504. Corn insect infestations and losses in Indiana, 1962 48-54. Estimated damage and crop loss caused by insect/mite pests in California, 1962 1195-1202 and 1320. Losses in yield of corn grown for grain due to insects and birds in Indiana, 1962 1283-1284. Minnesota insect loss estimates, 1962 1227. Wisconsin insect loss estimates, 1962 1253-1254

Maps, distribution - alfalfa weevil 163, 1304; bluetongue, counties in which reported, 1948-1962 1058; cereal leaf beetle, 1963 481, 1031; European corn borer 40; old-house borer 310; pear psylla 193; periodical cicadas, occurrence in Tennessee, 1963 1088; psoroptic sheep scabies reported, FY 1963 1352; southwestern corn borer, 1963 - in U.S. 147, survey in Alabama 1346; western corn rootworm, 1963 - in U.S. 151, in Iowa 905

Maps, general - boll weevil situation, western U.S. 264; corn rootworm situation in Iowa, 1963 1310; grasshopper adult survey, fall 1962, following page 24; imported fire ant, status of 417; Japanese beetle, status of 415; Mormon cricket adult survey, fall 1963, between pages 1218 and 1219

Meadow spittlebug survey, 1963 - Illinois 1139; Ohio 1290

New 1962 Maryland insect and mite records 95

Notes on *Heliothis* in Arkansas 109-112

Periodical cicadas, 1962 occurrence of brood II in Maryland 96

Pictorial key - notes and pictorial key for identification of larvae of dermestid genera 385-386

Potato psyllid - survey, spring breeding areas of Arizona and California, 1963 218; survey, spring breeding areas of Texas and southeastern New Mexico 397

Scientific names - some common aphids 84; red-necked peanut-worm 1355

Screw-worm in the Southwest 5, 15,
31, 45, 66, 89, 118, 142, 182,
220, 256, 286, 358, 403, 437,
469, 495, 529, 562, 588, 621,
657, 690, 728, 766, 801, 836,
870, 882, 927, 962, 996, 1026,
1059, 1086, 1119, 1155, 1185,
1217, 1247, 1271, 1299, 1318,
1336, 1353, 1367, 1379, 1397,
1409, 1425

Some of the more important pests
for 1962 736

State survey coordinators
56-58

Summary of insect conditions in
some countries of the Near East
and Africa, 1962 - Afghanistan
72; Ethiopia 82; Libya 76;
Morocco 74; Sudan 78

Summary of insect conditions in the
United States, 1962 - Hawaii
93-94. Introduction and list of
States and individuals submitting
summaries 120-122, 419; weather
of the year 122-125. Cereal
and forage insects - general
feeders 125-130; small grain
insects 130-136; corn, sorghum
and sugarcane insects 144-154;
alfalfa, clover, sweetclover,
vetch and bean insects 155-168;
lawn, pasture and rangeland in-
sects 168-171; soybean and
peanut insects 171-174; flax,
sunflower, mustard and safflower
insects 175. Fruit insects
188-212; truck crop insects
224-246; tobacco insects 246-
248; cotton insects 262-270;
insects affecting man and
animals 291-304; household
and structural insects 304-311;
forest and shade tree insects
327-356; ornamental insects
371-380; stored product insects
381-384; beneficial insects
410-414; miscellaneous insects
415-419

Survey methods - corn earworm damage
survey 420; grape root borer
survey as used in Arkansas 808;
notes on sweep nets 737; rice
stink bug survey as used in
Arkansas 7; soybean insect
survey as used in Arkansas 91

Wireworm populations during 1962-
1963 fall-to-spring season and
their damage to potatoes in
vicinity of Charleston, South
Carolina 970

COMMON NAMES

Ailanthus webworm
(*Atteva aurea*)
Alaska spruce beetle
(*Dendroctonus borealis*)
Alfalfa caterpillar
(*Colias eurytheme*)
Alfalfa looper
(*Autographa californica*)
Alfalfa plant bug
(*Adelphocoris lineolatus*)
Alfalfa webworm
(*Loxostege commixtalis*)
Alfalfa weevil
(*Hypera postica*)
Alkali bee
(*Nomia melanderi*)
Allegheny mound ant
(*Formica exsectoides*)
Almond moth
(*Cadra cautella**)
Ambrosia beetles
1334
American cockroach
(*Periplaneta americana*)
American dagger moth
(*Acronicta americana*)
American dog tick
(*Dermacentor variabilis*)
American grasshopper
(*Schistocerca americana*)
American plum borer
(*Euzophera semifuneralis*)
Angoumois grain moth
(*Sitotroga cerealella*)
Angular-winged katydid
(*Microcentrum retinerve*)
Anthorcid bugs
999
Antique sap beetle
(*Carpophilus antiquus*)
Ants
287, 308, 404, 439, 470, 965,
998, 1060, 1157
Aphids
72, 73, 74, 104, 130, 132, 192,
210, 217, 218, 219, 227, 237,
245, 283, 284, 315, 318, 352,
362, 374, 392, 395, 396, 398,
401, 435, 460, 462, 466, 486,
492, 519, 523, 527, 544, 552,
555, 560, 583, (592), (593),
(595), 615, 619, 644, 645, 655,
680, 683, 686, 688, 713, 720,
726, 759, 764, 790, 799, (809),
825, 834, 864, 868, 921, 957,
961, 985, 988, 994, 1013, 1020,
1053, 1083, 1084, 1116, 1118,
1147, 1154, (1162), (1165),
(1167), 1184, (1197), 1207,
1210, 1215, (1224), 1245, (1253),
1270, (1280), 1297, 1314, 1316,
1332, 1334, 1349, 1350, 1364,
1365, 1376, (1384), (1387),
(1388), 1393, 1395, 1396
Apple aphid
(*Aphis pomi*)
Apple grain aphid
(*Rhopalosiphum fitchii*)
Apple leafhopper
(*Empoasca maligna*)
Apple leaf skeletonizer
(*Psorosina hammondi*)
Apple maggot
(*Rhagoletis pomonella*)
Apple mealybug
(*Phenacoccus aceris*)

Apple rust mite
(*Aculus schlechtendali*)
Apple twig borer
(*Amphicercus bicaudatus*)
Apple-and-thorn skeletonizer
(*Anthophila pariana*)
Arborvitae leaf miner
(*Argyresthia thuiella*)
Arborvitae weevil
(*Phyllobius intrusus*)
Arctiid, an
82
Argentine ant
(*Iridomyrmex humilis*)
Argus tortoise beetle
(*Chelymormpha cassidea*)
Army cutworm
(*Chorizagrotis auxiliaris*)
Armyworm
(*Pseudaletia unipuncta*)
Armyworms
134, (592), (593)
Artichoke plume moth
(*Platyptilia carduidactyla*)
Ash borer
(*Podosesia syringae fraxini*)
Ash-gray blister beetle
(*Epicauta fabricii*)
Asiatic garden beetle
(*Maladera castanea*)
Asiatic oak weevil
(*Cyrtopistomus castaneus*)
Asiatic rice borer
(*Chilo suppressalis*)
Asparagus beetle
(*Crioceris asparagi*)
Aspen leaf beetle
(*Chrysomela crotchii*)
Assassin bug, an
369
Avocado brown mite
(*Oligonychus punicae*)
Avocado whitefly
(*Trialeurodes floridensis*)
Azalea bark scale
(*Eriococcus azaleae*)
Azalea caterpillar
(*Datana major*)
Azalea lace bug
(*Stephanitis pyrioides*)
Azalea leaf miner
(*Gracilaria azaleella*)
Azalea whitefly
(*Pealius azaleae*)

B

Bagrada bug°
(*Bagrada hilaris*)
Bagworm
(*Thyridopteryx ephemeraeformis*)
Bagworm, a
924
Balsam-fir sawfly
(*Neodiprion abietis*)
Balsam gall midge
(*Cecidomyia balsamicola*)
Balsam twig aphid
(*Mindarus abietinus*)
Balsam woolly aphid
(*Chermes piceae*)
Baluchistan melon fly°
(*Myiopardalis paradalina*)
Bamboo powder-post beetle
(*Dinoderus minutus*)
Banded cucumber beetle
(*Diabrotica balteata*)

Banded greenhouse thrips
(*Hercinothrips femoralis*)
Banded sunflower moth
(*Phalonia hospes*)
Banded-wing whitefly
(*Trialeurodes abutilonea*)
Banded woollybear
(*Isia isabella*)
Banks grass mite
(*Oligonychus pratensis*)
Bark beetles
761, 1395
Barley aphid°
(*Cuernavaca noxius*)
Barley jointworm
(*Harmolita hordei*)
Barnacle scale
(*Ceroplastes cirripediformis*)
Basswood lace bug
(*Gargaphia tiliae*)
Bean aphid
(*Aphis fabae*)
Bean butterfly°
(*Lampides boeticus*)
Bean leaf beetle
(*Cerotoma trifurcata*)
Bean leaf roller
(*Urbanus proteus*)
Bean thrips
(*Hercotothrips fasciatus*)
Bean weevil
(*Acanthoscelides obtectus*)
Bed bug
(*Cimex lectularius*)
Bed bugs
77
Beech blight aphid
(*Prociophilus imbricator*)
Beech scale
(*Cryptococcus fagi*)
Bees
964, 998
Beet armyworm
(*Spodoptera exigua*)
Beet leafhopper
(*Circulifer tenellus*)
Beet leaf miner
(*Pegomya betae*)
Beet webworm
(*Loxostege sticticalis*)
Beneficial spiders
413
Billbugs
606, 705, 1144, (1382)
Birch casebearer
(*Coleophora salmani*)
Birch leaf miner
(*Fenusia pusilla*)
Birch skeletonizer
(*Bucculatrix canadensisella*)
Biting midges
622, 730
Black blister beetle
(*Epicauta pennsylvanica*)
Black blow fly
(*Phormia regina*)
Black carpet beetle
(*Attagenus piceus*)
Black carpenter ant
(*Camponotus pennsylvanicus*)
Black cherry aphid
(*Myzus cerasi*)
Black cherry fruit fly
(*Rhagoletis fausta*)
Black citrus aphid
(*Toxoptera aurantii*)
Black cutworm
(*Agrotis ipsilon*)

* Walley, P.E.S. 1960. Ent. Gaz.
11(4): 183-184.

Black fleahoppers
615, 651, 682, 795, 920, 957
Black flies
299, 494, 563, 621, 658, 692,
696, 730, 767, 802, 871, 964,
1027, 1120, 1247, 1299
Black grass bugs
705
Black Hills beetle
(*Dendroctonus ponderosae*)
Black horse fly
(*Tabanus atratus*)
Black larder beetle
(*Dermestes ater*)
Black parlatoria scale°
(*Parlatoria zizyphus*)
Black peach aphid
(*Anuraphis persicaeniger*)
Black pecan aphid
(*Melanocallis caryaefoliae*)
Black pine leaf scale
(*Aspidiotus californicus*)
Black scale
(*Saissetia oleae*)
Black swallowtail
(*Papilio polyxenes asterius*)
Black thread scale
(*Ischnaspis longirostris*)
Black turpentine beetle
(*Dendroctonus terebrans*)
Black vine weevil
(*Brachyrhinus sulcatus*)
Black widow spider
(*Latrodectus mactans*)
Black-headed budworm
(*Accleris variana*)
Black-headed fireworm
(*Rhopobota naevana*)
Black-horned pine borer
(*Callidium antennatum* var.
hesperum)
Black-legged tick
(*Ixodes scapularis*)
Black-margined aphid
(*Monellia costalis*)
Blister beetles
78, (271), 707, 785, 804, 819,
858, 1108, (1385)
Bloodsucking conenose
(*Triatoma sanguisuga*)
Blow flies
307, 438, 469, 838
Blueberry maggot
(*Rhagoletis pomonella*)
Blueberry bud mite
(*Aceria vaccinii*)
Blueberry thrips
(*Frankliniella vaccinii*)
Boll weevil
(*Anthonomus grandis*)
Bollworm
(*Heliothis zea*)
Booklice
(*Liposcelis* spp.)
Borers
1117
Boxelder aphid
(*Periphyllus negundinis*)
Boxelder bug
(*Leptocoris trivittatus*)
Boxelder leaf roller
(*Gracilaria negundella*)
Boxwood leaf miner
(*Monarthropalpus buxi*)
Boxwood psyllid
(*Psylla buxi*)
Bristly cutworm
(*Lacinipolia renigera*)
Broadbean weevil
(*Bruchus rufimanus*)
Broad-necked root borer
(*Prionus laticollis*)

Bronze birch borer
(*Agrilus anxius*)
Bronzed cutworm
(*Nephelodes emmedonia*)
Brown dog tick
(*Rhipicephalus sanguineus*)
Brown garden snail
(*Helix aspersa*)
Brown house moth
(*Hofmannophila pseudospretella*)
Brown salt-marsh mosquito
(*Aedes cantator*)
Brown soft scale
(*Coccus hesperidum*)
Brown spider beetle
(*Ptinus clavipes*)
Brown stink bug
(*Euschistus servus*)
Brown wheat mite
(*Petrobia latens*)
Brown-banded cockroach
(*Supella supellectilium*)
Brown-tail moth
(*Nygmia phaeorrhoea*)
Bruce spanworm
(*Operophtera bruceata*)
Buck moth
(*Hemileuca maia*)
Buckthorn aphid
(*Aphis nasturtii*)
Buffalo treehopper
(*Stictoccephala bubalus*)
Bulb mite
(*Rhizoglyphus echinopus*)
Bumble flower beetle
(*Euphoria inda*)
Buprestid beetles
311

Cabbage aphid
(*Brevicoryne brassicae*)
Cabbage curculio
(*Ceutorhynchus rapae*)
Cabbage looper
(*Trichoplusia ni*)
Cabbage maggot
(*Hylemya brassicae*)
Cabbage moth°
(*Mamestra brassicae*)
Cabbage seedpod weevil
(*Ceutorhynchus assimilis*)
Cabbage webworm
(*Hellula rogatalis*)
Cabbageworms
72, 79
Cactus scale
(*Diaspis echinocacti*)
Cadelle
(*Tenebroides mauritanicus*)
Calico scale
(*Lecanium cerasorum*)
California five-spined ips
(*Ips confusus*)
California flatheaded borer
(*Melanophila californica*)
California harvester ant
(*Pogonomyrmex californicus*)
California oakworm
(*Phryganidia californica*)
California pear-slug
(*Pristiphora californica*)
California prionus
(*Prionus californicus*)
California red scale
(*Aonidiella aurantii*)
California tent caterpillar
(*Malacosoma californicum*)
Camellia scale
(*Lepidosaphes camelliae*)

Camphor scale
(*Pseudaonidia duplex*)
Cankerworms
321, 430, 435, 459, 466, 474,
491, 525, 549, 558, 584, 617,
653, 685, 736
Carnation tip maggot
(*Hylemya echinata*)
Carolina grasshopper
(*Dissosteira carolina*)
Carolina mantis
(*Stagmomantis carolina*)
Carpet beetle
(*Anthrenus scrophulariae*)
Carpet beetles
732, (1202), 1219
Carpenter ants
368, 564, (1202)
Carpenter bee
(*Xylocopa virginica*)
Carpenter bees
470, 623, 693
Carpenterworm
(*Prionoxystus robiniae*)
Carrot beetle
(*Bothynus gibbosus*)
Carrot rust fly
(*Psila rosae*)
Carrot weevil
(*Listronotus oregonensis*)
Casemaking clothes moth
(*Tinea pellionella*)
Cat flea
(*Ctenocephalides felis*)
Catalpa sphinx
(*Ceratomia catalpae*)
Caterpillars
1096
Catfacing insects
200, 751
Cattle biting louse
(*Bovicola bovis*)
Cattle grubs
(*Hypoderma* spp.)
Cattle grubs
(598)
Cattle lice
5, 15, 32, 67, 89, 107, 118,
142, 183, 220, 257, 285, 300,
322, 367, 404, 438, 469,
1186, 1351, 1366, 1377, 1398
Cattle tail louse
(*Haematopinus quadripertusus*)
Cattle tick
(*Boophilus annulatus*)
Cecidomyiid, a
135
Celery fly°
(*Euleia heraclei*)
Celery leaf tier
(*Udea rubigalis*)
Centipedes
(1202)
Cerambycid beetles
282, 306, 856
Cereal leaf beetle°
(*Oulema melanopa*)
Cereal leaf miner°
(*Syringopais temperatella*)
Chaff scale
(*Parlatoria pergandii*)
Chain-spotted geometer
(*Cingilia catenaria*)
Cherry fruit fly
(*Rhagoletis cingulata*)
Cherry fruitworm
(*Grapholitha packardii*)
Cherry maggot
(*Rhagoletis cingulata*)
Cheese skipper
(*Piophilis casei*)
Chicken body louse
(*Menacanthus stramineus*)

- Chicken lice
300
- Chicken mite
(Dermanyssus gallinae)
- Chicken mites
303
- Chiggers
563, 732, 736, 768, 838, 930
- Chinch bug
(Blissus leucopterus)
- Chinch bugs
577, 606, 736, 782, 912
- Chinese rose beetle
(Adoretus sinicus)
- Chironomid midges
1027
- Chrysanthemum aphid
(Macrosiphoniella sanborni)
- Chrysanthemum gall midge
(Diarthronomyia chrysanthemi)
- Chrysanthemum lace bug
(Corythucha marmorata)
- Chrysanthemum leaf miner
(Phytomyza atricornis)
- Cicada killer
(Sphecius speciosus)
- Cicadas
516, 695, 1055, 1117
- Cigarette beetle
(Lasioderma serricornis)
- Citricola scale
(Coccus pseudomagnoliarum)
- Citrus blackfly
(Aleurocanthus woglumi)
- Citrus bud mite
(Aceria sheldoni)
- Citrus flat mite
(Brevipalpus lewisi)
- Citrus leaf miner
(Phyllocnistis citrella)
- Citrus leaf miner, a
79
- Citrus mealybug
(Pseudococcus citri)
- Citrus mites
518
- Citrus red mite
(Panonychus citri)
- Citrus rust mite
(Phyllocoptiruta oleivora)
- Citrus thrips
(Scirtothrips citri)
- Citrus whitefly
(Dialeurodes citri)
- Clay-backed cutworm
(Agrotis gladiaria)
- Clear-winged grasshopper
(Camnula pellucida)
- Clearwing moths
207, 551
- Clematis blister beetle
(Epicauta cinerea)
- Climbing cutworms
578
- Clothes moths
497, 732, 965
- Clouded sulphur
(Colias philodice)
- Clover aphid
(Anuraphis bakeri)
- Clover head caterpillar
(Grapholitha interstinctana)
- Clover head weevil
(Hypera meles)
- Clover leafhopper
(Aceratagallia sanguinolenta)
- Clover leaf weevil
(Hypera punctata)
- Clover looper
(Caenurgina crassiuscula)
- Clover mite
(Bryobia praetiosa)
- Clover mites
(1202)
- Clover root curculio
(Sitona hispidula)
- Clover root borer
(Hylastinus obscurus)
- Clover seed weevil
(Miccotrogus picirostris)
- Clover stem borer
(Languria mozdardi)
- Clover weevils
(1165)
- Cluster fly
(Pollenia rudis)
- Coccids
365, 371, 467, 835, 868, 1055,
1216, 1241, 1246, 1270, 1317,
1335, 1350, 1365, 1376
- Cocklebur weevil
(Rhodoabaenus tredecimpunctatus)
- Cockroaches
77, 81, 107, 143, 183, 306, 439,
736, 1088, 1218
- Coconut mealybug
(Pseudococcus nipae)
- Coconut scale
(Aspidiotus destructor)
- Codling moth
(Carpocapsa pomonella)
- Coffee bean weevil
(Araecerus fasciculatus)
- Coffee berry borer
(Stephanoderes hampei)
- Coffee trunk borer, a
81
- Colorado potato beetle
(Leptinotarsa decemlineata)
- Columbian timber beetle
(Corthylus columbianus)
- Columbine leaf miner
(Phytomyza minuscula)
- Common cattle grub
(Hypoderma lineatum)
- Common malaria mosquito
(Anopheles quadrimaculatus)
- Cone moth, a
1296
- Confused flour beetle
(Tribolium confusum)
- Conifer sawflies
(Neodiprion spp.)
- Conifer sawflies
525, 558, 617, 684, 761, 993,
1022
- Convergent lady beetle
(Hippodamia convergens)
- Cooley spruce gall aphid
(Chermes cooleyi)
- Coreid bugs
200
- Corn blotch leaf miner
(Agromyza parvicornis)
- Corn earworm
(Heliothis zea)
- Corn flea beetle
(Chaetocnema pulicaria)
- Corn leaf aphid
(Rhopalosiphum maidis)
- Corn planthopper
(Peregrinus maidis)
- Corn root aphid
(Anuraphis maidiradicis)
- Corn root webworm
(Crambus caliginosellus)
- Corn rootworms
(272), 736, (1036), (1129),
(1382)
- Corn sap beetle
(Carpophilus dimidiatus)
- Corn silk beetle
(Luperodes brunneus)
- Cornfield ant
(Lasius alienus)
- Cotton aphid
(Aphis gossypii)
- Cotton fleahopper
(Psallus seriatus)
- Cotton jassid
(Empoasca lybica)
- Cotton leaf perforator
(Bucculatrix thurberiella)
- Cotton leafworm
(Alabama argillacea)
- Cotton square borer
(Strymon melinus)
- Cotton stem borer
(Sphenoptera gossypii)
- Cottonseed bug
(Oxycarenus hyalinipennis)
- Cottonwood borer
(Plectrodera scalator)
- Cottonwood dagger moth
(Acronicta lepusculina)
- Cottonwood leaf beetles
(Chrysomela scripta complex)
- Cottony-cushion scale
(Icerya purchasi)
- Cottony maple scale
(Pulvinaria innumerabilis)
- Cowpea aphid
(Aphis craccivora)
- Cowpea curculio
(Chalcodermus aeneus)
- Cowpea weevil
(Callosobruchus maculatus)
- Crab louse
(Phthirus pubis)
- Cranberry fruitworm
(Acrobasis vaccinii)
- Cranberry girdler
(Crambus topiarius)
- Crane fly, a
1030
- Crapemyrtle aphid
(Myzocallis kahawaluokalani)
- Crescent-marked lily aphid
(Neomyzus circumflexus)
- Crested wheat bug, a
(972)
- Crickets
80, 81, 306, 672, 800, 814,
846, 931, 965, 998, 1028,
1060, 1087, 1121, 1157, (1202),
1218, 1302
- Cross-striped cabbageworm
(Evergestis rimosalis)
- Cuban-laurel thrips
(Gynaikothrips ficorum)
- Cucumber beetles
716, (1253)
- Curculionid, a
866
- Curled rose sawfly
(Allantus cinctus)
- Curran borer
(Ramosia tipuliformis)
- Curran fruit fly
(Epochra canadensis)
- Curran stem girdler
(Janus integer)
- Cutworms
73, 106, 115, 139, 166, 172,
233, 239, 246, 253, 267, (272),
(273), 279, 315, 318, 359, 364,
398, 399, 411, 427, 432, 455,
480, 489, 519, 523, 556, 577,
583, 605, 611, 614, 645, 650,
667, 680, 717, 719, 743, 792,
819, 828, 851, 861, 920, 947,
953, 956, 1010, 1113, (1164),
(1199), 1220, 1238, 1249,
(1253), (1278), (1382), (1387),
(1388)
- Cyclamen mite
(Steneotarsonemus pallidus)

D

Dampwood termites
309
Damsel bugs
(*Nabis* spp.)
Damsel bugs
471, 532, 590, 873
Dark mealworm
(*Tenebrio obscurus*)
Darkling beetles
305, 363, (1202)
Dark-sided cutworm
(*Euxoa messoria*)
Deer flies
696, 732
Deodar weevil
(*Pissodes nemorensis*)
Dermestid beetles
368, 470, 931, 1121, 1378
Desert corn flea beetle
(*Chaetocnema ectypa*)
Desert locust^o
(*Schistocerca gregaria*)
Desert spider mite
(*Tetranychus desertorum*)
Devastating grasshopper
(*Melanoplus devastator*)
Diamondback moth
(*Plutella maculipennis*)
Dictyospermum scale
(*Chrysomphalus dictyospermi*)
Differential grasshopper
(*Melanoplus differentialis*)
Dingy cutworm
(*Feltia subgothica*)
Dobsonfly
(*Corydalus cornutus*)
Dog flea
(*Ctenocephalides canis*)
Dog follicle mite
(*Demodex canis*)
Dogwood borer
(*Thamnosphacia scitula*)
Dogwood club-gall midge
(*Mycodiplosis alternata*)
Dogwood twig borer
(*Oberea tripunctata*)
Douglas-fir beetle
(*Dendroctonus pseudotsugae*)
Douglas-fir engraver
(*Scolytus unispinosus*)
Douglas-fir tussock moth
(*Homocampa pseudotsugata*)
Douglas-fir twig weevil
(*Cylindrocopturus furnissi*)
Drain flies
223, 258
Dried-fruit beetle
(*Carpophilus hemipterus*)
Dried-fruit moth
(*Vitula edmandsae serratilineella*)
Drone fly
(*Eristalis tenax*)
Drugstore beetle
(*Stegobium paniceum*)
Dryberry mite
(*Phyllocoptes gracilis*)
Drywood termites
309
Durra aphid^o
(*Aphis sorghi*)
Durra stalk borer^o
(*Sesamia cretica*)
Dusky birch sawfly
(*Croesus latitarsus*)
Dusky sap beetle
(*Carpophilus lugubris*)

E

Ear tick
(*Otobius megnini*)
Earwigs
46, 90, 223, 679, 965, 995,
(1202), 1218, 1249, 1337
Eastern lubber grasshopper
(*Romalea microptera*)
Eastern raspberry fruitworm
(*Byturus rubi*)
Eastern spruce gall aphid
(*Chermes abietis*)
Eastern subterranean termite
(*Reticulitermes flavipes*)
Eastern tent caterpillar
(*Malacosoma americanum*)
Eggplant flea beetle
(*Epitrix fuscata*)
Eggplant fruit borer^o
(*Leucinodes orbonalis*)
Egyptian cottonworm^o
(*Prodenia litura*)
Eight-spotted forester
(*Alypia octomaculata*)
Elm borer
(*Saperda tridentata*)
Elm calligrapha
(*Calligrapha scalaris*)
Elm casebearer
(*Coleophora limosipennella*)
Elm flea beetle
(*Altica ulmi*)
Elm lace bug
(*Corythucha ulmi*)
Elm leaf aphid
(*Myzocallis ulmifolii*)
Elm leaf beetle
(*Galerucella xanthomelaena*)
Elm leaf miner
(*Fenusa ulmi*)
Elm sawfly
(*Cimbex americana*)
Elm spanworm
(*Ennomos subsignarius*)
Elongate flea beetle
(*Systema elongata*)
Engelmann spruce beetle
(*Dendroctonus engelmanni*)
English grain aphid
(*Macrosiphum avenae*)
Ephydrid fly, an
494
Eriophyid mites
201, 380, 653, 687, 868, 1264,
1355
Ermine moth
(*Hyponomeuta padella*)
Euonymus scale
(*Unaspis euonymi*)
European apple sawfly
(*Hoplocampa testudinea*)
European carrot borer^o
(*Phalonia zephyrana*)
European chafer
(*Amphimallon majalis*)
European cherry fruit fly^o
(*Rhagoletis cerasi*)
European corn borer
(*Ostrinia nubilalis*)
European earwig
(*Forficula auricularia*)
European elm scale
(*Gossyparia spuria*)
European fruit lecanium
(*Lecanium corni*)
European grain moth
(*Nemapogon granella*)
European mantis
(*Mantis religiosa*)

European pine sawfly
(*Neodiprion sertifer*)
European pine shoot moth
(*Rhyacionia buoliana*)
European red mite
(*Panonychus ulmi*)
Eye-spotted bud moth
(*Spilonota ocellana*)

F

Face fly
(*Musca autumnalis*)
Fall armyworm
(*Laphygma frugiperda*)
Fall cankerworm
(*Alsophila pometaria*)
Fall webworm
(*Hyphantria cunea*)
False chinch bug
(*Nysius ericae*)
False codling moth^o
(*Cryptophlebia leucotreta*)
False katydid, a
322
False powder-post beetles
378
False wireworms
282, 316
Fern scale
(*Pinnaspis aspidistrae*)
Field crickets
(*Gryllus* spp.)
Fiery hunter
(*Calosoma calidum*)
Fig scale
(*Lepidosaphes ficus*)
Fig wax scale^o
(*Ceroplastes rusci*)
Filbertworm
(*Melissopus latiferreanus*)
Fir engraver
(*Scolytus ventralis*)
Firebrat
(*Thermobia domestica*)
Fireworms
856
Flat bug, a
773
Flat grain beetle
(*Cryptolestes pusillus*)
Flatheaded apple tree borer
(*Chrysobothris femorata*)
Flatheaded fir borer
(*Melanophila drummondi*)
Flea beetles
78, 79, 152, 225, 263, (449),
488, 519, 523, 554, 556, 580,
582, 611, 615, 625, 645,
649, 650, 680, 716, 753, 790,
828, 861, 1015, 1024, (1038),
1080, 1081, (1099), (1162),
1263, (1382), (1387), (1388)
Fleahoppers
433, 459, (1102), (1257)
Fleas
77, 496, 838, 930, 1087, 1377
Fletcher scale
(*Lecanium fletcheri*)
Flies
563, (598), 732, 802, 929,
1058, 1120, (1200)
Floodwater mosquito
(*Aedes sticticus*)
Florida red scale
(*Chrysomphalus aonidum*)
Florida wax scale
(*Ceroplastes floridensis*)
Flower flies
222, 414, 440, 442, 471, 498,
532, 533, 839, 873, 1378

Flower thrips
(Frankliniella tritici)
Forage looper
(Caenurgina erechtea)
Forbes scale
(Aspidiotus forbesi)
Foreign grain beetle
(Ahasverus advena)
Forest tent caterpillar
(Malacosoma disstria)
Four-lined plant bug
(Poeciloscopus lineatus)
Four-spotted spider mite
(Tetranychus canadensis)
Fowl tick
(Argas persicus)
Frit fly
(Oscinella frit)
Fruit-tree leaf roller
(Archips argyrospilus)
Fruit-tree mite, a
(1097)
Fulgorid planthoppers
620
Fuller rose beetle
(Pantomorus godmani)
Fungus gnats
64, 384, (1202)
Furniture carpet beetle
(Anthrenus flavipes)

G

Gall midges
245, 551
Gall mite, a
356
Gall wasps
350
Garden fleahopper
(Halticus bracteatus)
Garden spiders
(1202)
Garden springtail
(Bourletiella hortensis)
Garden symphylan
(Scutigera immaculata)
Garden webworm
(Loxostege similalis)
Gelechiid moths
169
German cockroach
(Blattella germanica)
Giant bark aphid
(Longistigma caryae)
Giant hornet
(Vespa crabro germana)
Giant water bug
(Lethocerus americanus)
Gladiolus thrips
(Taeniothrips simplex)
Glassy cutworm
(Crymodes devastator)
Globose scale
(Lecanium prunastri)
Gloomy scale
(Chrysomphalus tenebriosus)
Glover scale
(Lepidosaphes gloverii)
Golden nematode
(Heterodera rostochiensis)
Golden oak scale
(Asterolecanium variolosum)
Golden tortoise beetle
(Metronia bicolor)
Golden-eye lacewing
(Chrysopa oculata)
Gooseberry fruitworm
(Zophodia convolutella)
Grain aphids
115, (503), (504), (505), (974)

Grain mite
(Acarus siro)
Grain thrips
(Limothrips cerealium)
Granary weevil
(Sitophilus granarius)
Granulate cutworm
(Feltia subterranea)
Grape berry moth
(Paralobesia viteana)
Grape cane gall maker
(Ampelogypter sesostris)
Grape erineum mite
(Eriophyes vitis)
Grape flea beetle
(Altica chalybea)
Grape leaf folder
(Desmia funeralis)
Grape leaf skeletonizer
(Harrisina americana)
Grape mealybug
(Pseudococcus maritimus)
Grape phylloxera
(Phylloxera vitifoliae)
Grape root borer
(Vitacea polistiformis)
Grape rootworm
(Fidia viticida)
Grape sawfly
(Erythrapsides vitis)
Grape scale
(Aspidiotus uvae)
Grape whitefly
(Trialeurodes vittatus)
Grapevine aphid
(Aphis illinoensis)
Grasshoppers
78, 79, 80, 81, 125, 126, 127,
128, 129, 202, 211, 216, 229,
241, 243, 379, 393, 427, (444),
(445), (449), (450), 458, 483,
(503), (504), (505), (506),
509, 541, 550, 573, (592), (593),
(594), (595), (596), 601, 633,
651, 665, 683, 701, 717, 720,
741, 779, (810), 813, 845, 880,
901, 941, (972), (974), 977,
1005, 1017, (1035), (1038),
1041, 1073, 1096, 1110, 1121,
(1125), 1141, 1143, 1145, 1176,
(1196), 1205, 1239, 1241, 1242,
1264, 1291, 1296, 1312, 1316,
1374, (1384), (1385), (1386),
(1387), (1388),
Grass thrips
(Anaphothrips obscurus)
Gray garden slug
(Deroceras reticulatum)
Gray sugarcane mealybug
(Pseudococcus boninsis)
Great Basin tent caterpillar
(Malacosoma fragile)
Great Basin wireworm
(Ctenicera pruinina)
Greater date moth
(Arenipses sabella)
Greater wax moth
(Galleria mellonella)
Greedy scale
(Aspidiotus camelliae)
Green cloverworm
(Plathypena scabra)
Green fruitworm
(Lithophane antennata)
Green June beetle
(Cotinis nitida)
Green lacewings
624, 932, 965
Green peach aphid
(Myzus persicae)
Green scale
(Coccus viridis)
Green shield scale
(Pulvinaria psidii)

Green stink bug
(Acrosternum hilare)
Greenbug
(Schizaphis graminum)
Greenhouse orthezia
(Orthezia insignis)
Greenhouse slug
(Milax gagates)
Greenhouse thrips
(Heliothrips haemorrhoidalis)
Greenhouse whitefly
(Trialeurodes vaporariorum)
Green-striped grasshopper
(Chortophaga viridifasciata)
Green-striped mapleworm
(Anisota rubicunda)
Gregarious oak leaf miner
(Cameraria cinnantiella)
Ground beetles
930
Ground pearls
1405
Ground mealybug
(Rhizococcus falcifer)
Gulf Coast tick
(Amblyomma maculatum)
Gypsy moth
(Porthetria dispar)

H

Hackberry lace bug
(Corythucha celtidis)
Hackberry-nipple-gall maker
(Pachypsylla celtidismamma)
Hairy chinch bug
(Blissus leucopterus hirtus)
Hairy spider beetle
(Ptinus villiger)
Hall scale
(Nilotaspis halli)
Harlequin bug
(Murgantia histrionica)
Harvester ants
(1202)
Hawthorn lace bug
(Corythucha cydoniae)
Head louse
(Pediculus humanus capitis)
Hellgrammite
(Corydalis cornutus)
Hemispherical scale
(Saissetia hemisphaerica)
Hemlock sawfly
(Neodiprion tsugae)
Hessian fly
(Phytophaga destructor)
Hibiscus mealybug
("Phenacoccus" hirsutus)
Hickory horned devil
(Citheronia regalis)
Hickory plant bug
(Lygocoris caryae)
Hickory shuckworm
(Laspeyresia caryana)
Hickory tussock moth
(Halisidota caryae)
Hide beetle
(Dermestes maculatus)
Hog louse
(Haematopinus suis)
Holly leaf miner
(Phytomyza ilicis)
Hollyhook weevil
(Apion longirostre)
Honey bee
(Apis mellifera)
Hop aphid
(Phorodon humuli)
Hop flea beetle
(Psylliodes punctulata)

Horn fly
(Haematobia irritans)
Horned squash bug
(Anasa armigera)
Hornets
301, 930, 964, 998, 1120, 1157
Hornworms
(1388)
Horse biting louse
(Bovicola equi)
Horse bot fly
(Gasterophilus intestinalis)
Horse flies
969, (1281)
House centipede
(Scutigera coleoptrata)
House cricket
(Acheta domesticus)
House fly
(Musca domestica)

I

Ichneumons
660
Imported cabbageworm
(Pieris rapae)
Imported currantworm
(Nematus ribesii)
Imported fire ant
(Solenopsis saevissima richteri)
Imported willow leaf beetle
(Plagioderma versicolora)
Indian cotton jassid^o
(Empoasca devastans)
Indian sugarcane leafhopper^o
(Pyrilla perpusilla)
Indian-meal moth
(Plodia interpunctella)
Introduced pine sawfly
(Diprion similis)
Io moth
(Automeris io)
Iris borer
(Macronoctua onusta)
Iris thrips
(Iridothrips iridis)
Iris weevil
(Mononychus vulpeculus)
Italian grasshopper^o
(Calliptamus italicus)
Italian locust^o
(Calliptamus italicus)
Italian pear scale
(Epidiaspis piricola)
Itch mite
(Sarcoptes scabiei)

J

Jack-pine budworm
(Choristoneura pinus)
Jack-pine sawfly
(Neodiprion pratti banksianae)
Japanese beetle
(Popillia japonica)
Jeffrey pine beetle
(Dendroctonus jeffreyi)
"Jeweled" beetle, a
288
Juniper scale
(Diaspis carueli)
Juniper webworm
(Dichomeris marginella)

K

Katyids
396, 461, 727

Khapra beetle
(Trogoderma granarium)
Klamath-weed beetles
(Chrysolina spp.)

L

Lace bugs
688, 726, 764, 995
Lacewings
414, 471, 498, 533, 590, 769,
803, 839, 873, 1088
Lady beetles
222, 258, 287, 324, 369, 405,
410, 440, 442, 471, 498, 532,
533, 564, 589, 623, 659, 693,
731, 769, 803, 839, 873, 931,
965, 999, 1028, 1029, 1088,
1121, 1158, 1188, 1219, 1301,
1337, 1368
Lake midges
563
Larch aphid
(Cinara laricis)
Larch casebearer
(Coleophora laricella)
Larch sawfly
(Pristiphora erichsonii)
Larder beetle
(Dermestes lardarius)
Large aspen tortrix
(Choristoneura conflictana)
Large white butterfly^o
(Pieris brassicae)
Larger canna leaf roller
(Calpodex ethlius)
Larger elm leaf beetle
(Monocesta coryli)
Larger shot-hole borer
(Scolytus mali)
Larger yellow ant
(Acanthomyops interjectus)
Lawn armyworm
(Spodoptera mauritia acronyctoides)
Leaf beetles
786, 1211
Leaf crumpler
(Acrobasis indigenella)
Leaf miners
80, 153, 219, 239, 363, 365, 610,
644, 678, 717, 759, 790, 914,
1055, 1113, 1154, (1198), 1243,
(1254), 1364, 1366, (1387)
Leaf mining beetle, a
1117
Leaf rollers
580, 716, (1097)
Leaf roller moths
377, 465, 580, 724, 789, 993
Leaf tiers
377
Leaf-footed bug
(Leptoglossus phyllopus)
Leafcutting bees
379
Leafhoppers
79, 83, 206, 215, 227, 234, 239,
242, 269, 282, 316, 375, 392,
433, (444), (450), 457, 461,
462, 467, 645, 671, 709, 759,
789, 816, 852, 861, 880, 961,
981, 1024, 1055, 1084, 1113,
(1196), 1215, 1245, (1253),
1291, 1330, 1346
Leek moth^o
(Acrolepia assectella)
Leopard moth
(Zeuzera pyrina)
Lespedeza webworm
(Tetralopha scortealis)
Lesser appleworm
(Grapholitha prunivora)

Lesser clover leaf weevil
(Hypera nigrirostris)
Lesser cornstalk borer
(Elasmopalpus lignosellus)
Lesser date moth^o
(Batrachedra amydraula)
Lesser grain borer
(Rhyzopertha dominica)
Lesser mealworm
(Alphitobius diaperinus)
Lesser peach tree borer
(Synanthedon pictipes)
Lice
183, 300, (598), (1281), (1282),
1335
Light-brown apple moth^o
(Austrotortrix postvittana)
Lilac borer
(Podosesia syringae syringae)
Lilac leaf miner
(Gracilaria syringella)
Lima-bean pod borer
(Etiella zinckenella)
Lima-bean vine borer
(Monophtilota pergratialis)
Linden looper
(Erannis tiliaria)
Locust borer
(Megacyllene robiniae)
Locust leaf miner
(Xenochalepus dorsalis)
Locust twig borer
(Ecdytolopha insitiana)
Lodgepole needle miner
("Recurvata" milleri)
Lone star tick
(Amblyomma americanum)
Long-nosed cattle louse
(Linognathus vituli)
Long-tailed mealybug
(Pseudococcus adonidum)
Loopers
377, 432, 828, (1253), (1254)
Lycaenid, a
317
Lygus bugs
(444), (445), (449), (973),
(1097), (1102), (1257)

M

Magnolia scale
(Neolecanium cornuparvum)
Maize billbug
(Sphenophorus maidis)
Mange mites
300
Maple bladder-gall mite
(Vasates quadripedes)
Maple leaf cutter
(Paraclemensia acerifoliella)
Maple petiole borer
(Caulocampus acericaulis)
Maple trumpet skeletonizer
(Epinotia acerella)
March flies
419
Margined blister beetle
(Epicauta pestifera)
Masked hunter
(Reduvius personatus)
Mayflies
1159
Meadow plant bug
(Leptopterna dolabratus)
Meadow spittlebug
(Philaenus spumarius)
Meal moth
(Pyralis farinalis)
Mealworms
67

Mealy plum aphid
(*Hyalopterus pruni*)
Mealybugs
28, 79, 81, 158, 206, 210, 373,
396, 645, 789, 823, (1197),
1207, 1242, 1365, 1424
Mediterranean flour moth
(*Anagasta kuhniella*)
Mediterranean fruit fly
(*Ceratitis capitata*)
Melon aphid
(*Aphis gossypii*)
Melon fly
(*Dacus cucurbitae*)
Melonworm
(*Diaphania hylinata*)
Mexican bean beetle
(*Epilachna varivestis*)
Mexican fruit fly
(*Anastrepha ludens*)
Mexican mealybug
(*Phenacoccus gossypii*)
Microlepidoptera
377
Midges
78, 692, 1298
Migratory grasshopper
(*Melanoplus sanguinipes*)
Millipeds
154, 308, 872, 931, 965, 1187,
1218, 1272, 1378, 1394
Mimosa webworm
(*Homadula albizziae*)
Mining scale
(*Howardia biclavus*)
Mirid bugs
798
Mites
71, 167, 201, 202, 205, 269,
356, 380, 496, 645, 851, 866,
926, 1187, (1196), 1242, 1266,
1268, (1278), 1366, 1399
Momphid moths
169
Monarch butterfly
(*Danaus plexippus*)
Mordellid beetle, a
1239
Mormon cricket
(*Anabrus simplex*)
Mormon crickets
509, 541
Morning-glory leaf miner
(*Bedellia somnulentella*)
Moroccan locust
(*Dociostaurus maroccanus*)
Mosquitoes
107, 291, 292, 293, 367, 403,
438, 496, 530, 563, 587, (598),
622, 658, 691, 696, 727, 736,
765, 800, 836, 871, 927, 963,
995, 1025, 1056, 1087, 1119,
1156, 1185, (1200), 1216, 1246,
1270, 1298, 1318, 1351, 1366,
1377, 1398
Moths
(1202)
Mountain-ash sawfly
(*Pristiphora geniculata*)
Mountain pine beetle
(*Dendroctonus monticolae*)
Mourning-cloak butterfly
(*Nymphalis antiopa*)
Muscid flies
695, 1271
Mushroom mite
(*Tyrophagus putrescentiae*)

Nantucket pine tip moth
(*Rhyacionia frustrana*)
Natal fruit fly
(*Ceratitidis rosa*)
Native elm bark beetle
(*Hylurgopinus rufipes*)
Native holly leaf miner
(*Phytomyza ilicicola*)
Navel orangeworm
(*Paramyelois transitella*)
Nematodes
1021
New Guinea sugarcane weevil
(*Rhabdoscelus obscurus*)
Northern cattle grub
(*Hypoderma bovis*)
Northern corn rootworm
(*Diabrotica longicornis*)
Northern fowl mite
(*Ornithonyssus sylviarum*)
Northern house mosquito
(*Culex pipiens pipiens*)
Northern masked chafer
(*Cyclocephala borealis*)
Northern mole cricket
(*Gryllotalpa hexadactyla*)
Norway-maple aphid
(*Periphyllus lyropictus*)
Nutgrass armyworm
(*Spodoptera exempta*)

Oak lace bug
(*Corythucha arcuata*)
Oak skeletonizer
(*Bucculatrix ainsliella*)
Oak webworm
(*Archips fervidanus*)
Oat cyst nematode
(*Heterodera avenae*)
Oblique-banded leaf roller
(*Archips rosaceanus*)
Obscure scale
(*Chrysomphalus obscurus*)
Oecophorid caterpillar
(*Dasystoma salicellum*)
Old-house borer
(*Hylotrupes bajulus*)
Old World bollworm
(*Heliothis armigera*)
Old World screw-worm
(*Chrysomya bezziana*)
Oleander aphid
(*Aphis nerii*)
Oleander scale
(*Aspidiotus hederae*)
Olive fruit fly
(*Dacus oleae*)
Olive moth
(*Prays oleellus*)
Olive psyllid
(*Euphyllura olivina*)
Olive scale
(*Parlatoria oleae*)
Omnivorous leaf tier
(*Cnephiasia longana*)
Omnivorous looper
(*Sabulodes caberata*)
One-spot stink bug
(*Euschistus variolarius*)
Onion bulb fly
(*Eumerus strigatus*)
Onion maggot
(*Hylemya antiqua*)
Onion thrips
(*Thrips tabaci*)
Orange tortrix
(*Argyrotaenia citrana*)
Orange-dog
(*Papilio cressphontes*)

Orange-striped oakworm
(*Anisota senatoria*)
Orchard mites
675, 751, 820, 854, 880, 913,
948
Oriental cockroach
(*Blatta orientalis*)
Oriental fruit fly
(*Dacus dorsalis*)
Oriental fruit moth
(*Grapholitha molesta*)
Oriental house fly
(*Musca domestica vicina*)
Oystershell scale
(*Lepidosaphes ulmi*)

P

Pacific Coast tick
(*Dermacentor occidentalis*)
Pacific Coast wireworm
(*Limonius canus*)
Pacific dampwood termite
(*Zootermopsis angusticollis*)
Pacific flatheaded borer
(*Chrysobothris mali*)
Pacific spider mite
(*Tetranychus pacificus*)
Packard grasshopper
(*Melanoplus packardii*)
Painted lady
(*Vanessa cardui*)
Painted leafhopper
(*Endria inimica*)
Painted maple aphid
(*Drepanaphis acerifoliae*)
Pale tussock moth
(*Halisidota tessellaris*)
Pale western cutworm
(*Agrotis orthogonia*)
Pales weevil
(*Hylobius pales*)
Pale-striped flea beetle
(*Systena blanda*)
Palm leaf skeletonizer
(*Homaledra sabalella*)
Pandora moth
(*Coloradia pandora*)
Papaya fruit fly
(*Toxotrypana curvicauda*)
Parasites
28, 131, 154, 155, 287, 324,
405, 412, 413, 590, 660, 731
Parlatoria date scale
(*Parlatoria blanchardi*)
Parsleyworm
(*Papilio polyxenes asterius*)
Pavement ant
(*Tetramorium caespitum*)
Pea aphid
(*Acyrtosiphon pisum*)
Pea leaf miner
(*Liriomyza langei*)
Pea leaf weevil
(*Sitona lineata*)
Pea moth
(*Laspeyresia nigricana*)
Pea weevil
(*Bruchus pisorum*)
Peach buprestid
(*Capnodis tenebrionis*)
Peach fruit moth
(*Carposina niponensis*)
Peach silver mite
(*Aculus cornutus*)
Peach tree borer
(*Sanninoidea exitiosa*)
Peach twig borer
(*Anarsia lineatella*)
Pear lace bug
(*Stephanitis pyri*)

N

Nabids
442

Pear leaf blister mite
(*Eriophyes pyri*)
Pear rust mite
(*Epitrimerus pyri*)
Pear psylla
(*Psylla pyricola*)
Pear thrips
(*Taeniothrips inconsequens*)
Pear-slug
(*Caliroa cerasi*)
Pecan aphids
1142
Pecan bud moth
(*Gretchena bolliana*)
Pecan carpenterworm
(*Cossula magnifica*)
Pecan cigar casebearer
(*Coleophora caryaefoliella*)
Pecan leaf casebearer
(*Acrobasis juglandis*)
Pecan leaf phylloxera
(*Phylloxera notabilis*)
Pecan leafroll mite
(*Aceria caryae*)
Pecan nut casebearer
(*Acrobasis caryae*)
Pecan phylloxera
(*Phylloxera devastatrix*)
Pecan spittlebug
(*Clastoptera achatina*)
Pecan weevil
(*Curculio caryae*)
Pepper maggot
(*Zonosemata electa*)
Periodical cicada
(*Magicalcica septendecim*)
Periodical cicadas
202, 258, 352, 536, 555, 566,
579, 585, 609, 641, 660, 673,
694, 712, 732, 751, 788, 798,
949, 985, 1088
Pharaoh ant
(*Monomorium pharaonis*)
Phlox plant bug
(*Lopidea davisii*)
Pigeon tremex
(*Tremex columba*)
Pickleworm
(*Diaphania nitidalis*)
Pigmy mangold beetle
(*Atomaria linearis*)
Pillbugs
270, 308, 366, 380, (1202)
Pine aphids
1365, 1395, 1407
Pine bark aphid
(*Pineus strobi*)
Pine bark beetles
958
Pine butterfly
(*Neophasia menapia*)
Pine chafer
(*Anomala obliqua*)
Pine colaspis
(*Colaspis pini*)
Pine engraver
(*Ips pini*)
Pine false webworm
(*Acantholyda erythrocephala*)
Pine leaf chermid
(*Pineus pinifoliae*)
Pine needle miner
(*Exoteleia pinifoliella*)
Pine needle scale
(*Phenacaspis pinifoliae*)
Pine reproduction weevils
721
Pine root collar weevil
(*Hylobius radicis*)
Pine spittlebug
(*Aphrophora parallela*)
Pine tip moths
524, 832, 958

Pine tortoise scale
(*Toumeyella numismaticum*)
Pine tube moth
(*Argyrotaenia pinatubana*)
Pine tussock moth
(*Dasychira plagiata*)
Pine webworm
(*Tetralopha robustella*)
Pineapple scale
(*Diaspis bromeliae*)
Pink bollworm
(*Pectinophora gossypiella*)
Pink scavenger caterpillar
(*Sathrobrotia rileyi*)
Pistachio psyllid
(*Agonoscena targionii*)
Pistol casebearer
(*Coleophora malivorella*)
Pitch twig moth
(*Petrova comstockiana*)
Plant bugs
200, (274), 431, (444), 474,
582, 604, 640, 719, 724, (809),
830, (1165), 1209, (1224), 1242,
1261, (1386)
Plum curculio
(*Conotrachelus nenuphar*)
Plum gouger
(*Anthonomus scutellaris*)
Plum rust mite
(*Aculus fockeui*)
Plum web-spinning sawfly
(*Neurotoma inconspicua*)
Polyphemus moth
(*Antheraea polyphemus*)
Poplar borer
(*Saperda calcarata*)
Poplar petiole gall aphid
(*Pemphigus populitransversus*)
Poplar tent maker
(*Ichthyura inclusa*)
Poplar vagabond aphid
(*Mordwilkoja vagabunda*)
Poplar-and-willow borer
(*Sternonchus lapathi*)
Potato aphid
(*Macrosiphum euphorbiae*)
Potato flea beetle
(*Epitrix cucumeris*)
Potato leafhopper
(*Empoasca fabae*)
Potato psyllid
(*Paratrioza cockerelli*)
Potato stalk borer
(*Trichobaris trinotata*)
Potato stem borer
(*Hydroecia micacea*)
Potato tuberworm
(*Gnorimoschema operculella*)
Powder-post beetles
310, 378, 439, 1374
Predaceous mites
660, 694
Predators
131, 154, 155, 287, 324, 413,
1411
Privet leaf miner
(*Gracilaria cuculipennella*)
Privet mite
(*Brevipalpus obovatus*)
Privet thrips
(*Dendrothrips ornatus*)
Pseudoscorpions
419
Psocids
384, 1398
Psychid moths
376
Psyllids
736, 1265
Pumpkin caterpillar
(*Diaphania indica*)

Purple scale
(*Lepidosaphes beckii*)
Puss caterpillar
(*Megalopyge opercularis*)
Putnam scale
(*Aspidiotus ancyclus*)
Pyralid moth, a
827
Pyrriform scale
(*Protopulvinaria pyrriformis*)

R

Range caterpillar
(*Hemileuca oliviae*)
Range crane fly
(*Tipula simplex*)
Rapid plant bug
(*Adelphocoris rapidus*)
Raspberry cane borer
(*Oberea bimaculata*)
Raspberry crown borer
(*Bembecia marginata*)
Raspberry sawfly
(*Monophadnoides geniculatus*)
Red carpenter ant
(*Camponotus ferrugineus*)
Red elm bark weevil
(*Magdalis arnicollis*)
Red flour beetle
(*Tribolium castaneum*)
Red harvester ant
(*Pogonomyrmex barbatus*)
Red pumpkin beetle
(*Raphidopalpa foveicollis*)
Red turnip beetle
(*Entomoscelis americana*)
Red turpentine beetle
(*Dendroctonus valens*)
Red-backed cutworm
(*Euxoa ochrogaster*)
Red-banded leaf roller
(*Argyrotaenia velutinana*)
Red-banded thrips
(*Selenothrips rubrocinctus*)
Red-headed ash borer
(*Neoclytus acuminatus*)
Red-headed pine sawfly
(*Neodiprion lecontei*)
Red-humped caterpillar
(*Schizura concinna*)
Red-legged flea beetle
(*Derocrepis erythropus*)
Red-legged grasshopper
(*Melanoplus femurrubrum*)
Red-necked cane borer
(*Agrilus ruficollis*)
Red-necked peanutworm
(*Stegasta bosqueella*)
Red-pine sawfly
(*Neodiprion nanulus nanulus*)
Rhodes-grass scale
(*Antonina graminis*)
Rhubarb curculio
(*Lixus concavus*)
Rice delphacid
(*Sogata orizicola*)
Rice moth
(*Corcyra cephalonica*)
Rice stink bug
(*Oebalus pugnax pugnax*)
Rice water weevil
(*Lissorhopterus oryzophilus*)
Rice weevil
(*Sitophilus oryzae*)
Ring-legged earwig
(*Euborellia annulipes*)
Robber flies
839
Rocky Mountain wood tick
(*Dermacentor andersoni*)

Southern armyworm
(*Prodenia eridania*)
Southern buffalo gnat
(*Cnephia pecuorum*)
Southern cabbageworm
(*Pieris protodice*)
Southern cattle tick
(*Boophilus microplus*)
Southwestern corn borer
(*Zeadiatraea grandiosella*)
Southern corn rootworm
(*Diabrotica undecimpunctata howardi*)
Southern cornstalk borer
(*Diatraea crambidoides*)
Southern fire ant
(*Solenopsis xyloni*)
Southern green stink bug
(*Nezara viridula*)
Southern house mosquito
(*Culex pipiens quinquefasciatus*)
Southern lyctus beetle
(*Lyctus planicollis*)
Southern pine beetle
(*Dendroctonus frontalis*)
Southern pine sawyer
(*Monochamus titillator*)
Southern potato wireworm
(*Conoderus falli*)
Southern red mite
(*Oligonychus ilicis*)
Sowbugs
285, 308, 1187, (1202)
Soybean cyst nematode
(*Heterodera glycines*)
Spiders
873, 1096
Spider beetles
439
Spider mites
104, 174, 180, 229, 232, 244,
245, 361, 364, 380, 399, 463,
490, 523, 528, 546, 556, 561,
576, 580, 587, 604, 621, 641,
651, 656, 680, 683, 689, 709,
711, 717, 720, 727, 736, 759,
765, 794, 800, 828, 830, 835,
860, 861, 862, 863, 869, 908,
921, 926, 945, 947, 957, 962,
983, 984, 991, 995, 1008, 1020,
1025, 1044, 1047, 1053, 1056,
1083, 1109, 1110, 1113, 1118,
1143, 1147, (1163), 1185, 1210,
1212, (1224), 1243, 1245, (1257),
1292, 1297, 1315, 1408
Spinach flea beetle
(*Disonycha xanthomelas*)
Spinach leaf miner
(*Pegomya hyoscyami*)
Spined soldier bug
(*Podisus maculiventris*)
Spiny bollworm
(*Earias insulana*)
Spiny oakworm
(*Anisota stigma*)
Spirea aphid
(*Aphis spiraeicola*)
Spittlebugs
170, 192, 375, 514, 548, 789,
983, 1216
Spotted alfalfa aphid
(*Therioaphis maculata*)
Spotted asparagus beetle
(*Crioceris duodecimpunctata*)
Spotted blister beetle
(*Epicauta maculata*)
Spotted cucumber beetle
(*Diabrotica undecimpunctata howardi*)
Spotted cutworm
(*Amathes c-nigrum*)
Spotted garden slug
(*Limax maximus*)

Spotted pine sawyer
(*Monochamus maculosus*)
Spring cankerworm
(*Paleacrita vernata*)
Springtails
46, 288, 308, 379, 406, 419,
499, 625, 716, 746, 803, 875,
1121, 1157, 1187, 1411
Spruce aphid
(*Aphis abietina*)
Spruce bud moth
(*Zeiraphera ratzeburgiana*)
Spruce bud scale
(*Physokermes piceae*)
Spruce budworm
(*Choristoneura fumiferana*)
Spruce needle miner
(*Taniva albolineana*)
Spruce needle miner, a
652
Spruce spider mite
(*Oligonychus ununguis*)
Square-necked grain beetle
(*Cathartus quadricollis*)
Squash beetle
(*Epilachna borealis*)
Squash bug
(*Anasa tristis*)
Squash vine borer
(*Melittia cucurbitae*)
Stable fly
(*Stomoxys calcitrans*)
Stalk borer
(*Papaipema nebris*)
Stem nematodes
216
Sticktight flea
(*Echidnophaga gallinacea*)
Stink bugs
161, 173, 228, 231, 457, 460,
712, 849, 857, 957, 983, 1046,
1053, 1140, (1197), 1207, 1241,
1289, 1347
Strawberry aphid
(*Pentatrichopus fragaefolii*)
Strawberry crown moth
(*Ramosia bibionipennis*)
Strawberry leaf roller
(*Ancylis comptana fragariae*)
Strawberry root aphid
(*Aphis forbesi*)
Strawberry root weevil
(*Brachyrhinus ovatus*)
Strawberry rootworm
(*Paria fragariae*)
Strawberry sawflies
614
Strawberry spider mite
(*Tetranychus atlanticus*)
Strawberry weevil
(*Anthonomus signatus*)
Straw itch mite
(*Pyemotes ventricosus*)
Striped cucumber beetle
(*Acalymma vittata*)
Striped flea beetle
(*Phyllotreta striolata*)
Striped horse fly
(*Tabanus lineola*)
Striped mealybug
(*Ferrisia virgata*)
Subterranean termites
143, 287, 404, 1028, 1219, 1410
Suckfly
(*Cyrtopeltis notatus*)
Sudan durra bug
(*Agonoscelis versicolor*)
Sugar-beet crown borer
(*Hulstia undulata*)
Sugar-beet root aphid
(*Pemphigus betae*)
Sugar-beet root maggot
(*Tetanops myopaeformis*)

Sugarcane beetle
(*Euetheola rugiceps*)
Sugarcane borer
(*Diatraea saccharalis*)
Sugar-maple borer
(*Glycobius speciosus*)
Sugar-pine cone beetle
(*Conophthorus lambertianae*)
Sunflower moth
(*Homoeosoma electellum*)
Superb plant bug
(*Adelphocoris superbus*)
Swallow bug
(*Oeciacus vicarius*)
Sweetclover aphid
(*Therioaphis riehmi*)
Sweetclover weevil
(*Sitona cylindricollis*)
Sweetpotato flea beetle
(*Chaetocnema confinis*)
Sweetpotato hornworm
(*Agrius cingulatus*)
Sweetpotato leaf miner
(*Bedellia orchilella*)
Sweetpotato leaf roller
(*Pilocrocis tripunctata*)
Sweetpotato weevil
(*Cylas formicarius elegantulus*)
Sweetpotato whitefly
(*Bemisia tabaci*)
Sycamore lace bug
(*Corythucha ciliata*)
Sycamore tussock moth
(*Halisidota harrisii*)
Symphyllans
397, 1113
Syrphid flies
1029

Tabanids
81, 530, 588, 657, 692, 729,
767, 802, 837, 871, 929, 963,
997, 1027
Tachina flies
185, 660
Tarnished plant bug
(*Lygus lineolaris*)
Tawny garden slug
(*Limax flavus*)
Tea scale
(*Fiorinia theae*)
Tent caterpillars
474, 525, 608
Termites
46, 80, 184, 309, 323, 324, 367,
404, 439, 470, 474, 483, 496,
531, 564, 693, 736, 872, 954,
965, 998, 1272, 1351, 1355
Terrapin scale
(*Lecanium nigrofasciatum*)
Texas citrus mite
(*Eutetranychus banksi*)
Texas leaf-cutting ant
(*Atta texana*)
Three-cornered alfalfa hopper
(*Spissistilus festinus*)
Three-lined potato beetle
(*Lema trilineata*)
Three-spotted flea beetle
(*Disonychia triangularis*)
Thirteen-spotted lady beetle
(*Hippodamia tredecimpunctata*
tibialis)
Thief ant
(*Solenopsis molesta*)
Thrips
30, 79, 81, 83, 135, 140, 154,
167, 168, 174, 202, 269, 281, 283,
319, 397, 399, 402, 429, 456, 461,
463, 489, 490, 494, 515, 519, 522,
555, 561, 576, 580, 582, 583, (593),

606, 615, 637, 645, 648, 650,
669, 672, 679, 683, 689, 709,
717, 720, 726, 745, 755, 759,
783, 828, 850, 911, 945, 995,
1077, (1102), (1196), 1212,
(1225), (1257), (1280), 1364,
(1382)
Thurberia weevil
(*Anthonomus grandis thurberiae*)
Ticks
74, 220, 469, 622, 692, 768,
1187, (1281), (1282)
Tiger swallowtail
(*Papilio glaucus*)
Tile-horned prionus
(*Prionus imbricornis*)
Tip moths
254, 721, 1149
Tobacco budworm
(*Heliothis virescens*)
Tobacco flea beetle
(*Epitrix hirtipennis*)
Tobacco hornworm
(*Protoparce sexta*)
Tobacco thrips
(*Frankliniella fusca*)
Tobacco wireworm
(*Conoderus vespertinus*)
Tobacco wireworms
463
Tomato fruitworm
(*Heliothis zea*)
Tomato hornworm
(*Protoparce quinquemaculata*)
Tomato pinworm
(*Keiferia lycopersicella*)
Tomato psyllid
(*Paratrioza cockerelli*)
Tomato russet mite
(*Aculus lycopersici*)
Toothed flea beetle
(*Chaetocnema denticulata*)
Tortoise beetles
694
Treehoppers
406
Trombidid mites
369
Tropical fowl mite
(*Ornithonyssus bursa*)
Tropical rat mite
(*Ornithonyssus bacoti*)
Tuber flea beetle
(*Epitrix tuberis*)
Tule beetle
(*Agonum maculicolle*)
Tulip bulb aphid
(*Anuraphis tulipae*)
Tuliptree aphid
(*Macrosiphum liriodendri*)
Tuliptree scale
(*Toumeyella liriodendri*)
Tumid spider mite
(*Tetranychus tumidus*)
Turnip aphid
(*Hyadaphis pseudobrassicae*)
Turnip maggot
(*Hylemya floralis*)
Turnip moth
(*Agrotis segetum*)
Tussock moths
526, 993
Twelve-spotted melon beetle
(*Epilachna chrysomelina*)
Twice-stabbed lady beetle
(*Chilocorus stigma*)
Twig girdler
(*Oncideres cingulata*)
Twig girdlers
1189
Twig pruner
(*Elaphidion villosum*)
Twig pruners
1117, 1184

Two-lined chestnut borer
(Agrilus bilineatus)
Two-marked treehopper
(Enchenopa binotata)
Two-spotted lady beetle
(Adalia bipunctata)
Two-spotted spider mite
(Tetranychus telarius)
Two-striped grasshopper
(Melanoplus bivittatus)
Two-striped walkingstick
(Anisomorpha buprestoides)

U

Ugly-nest caterpillar
(Archips cerasivoranus)
Unspotted tentiform leaf miner^o
(Callisto geminatella)

V

Variable oak leaf caterpillar
(Heterocampa manteo)
Varied carpet beetle
(Anthrenus verbasci)
Variegated cutworm
(Peridroma saucia)
Vedalia
(Rodolia cardinalis)
Vegetable weevil
(Listroderes costirostris obliquus)
Velvetbean caterpillar
(Anticarsia gemmatilis)
Vetch bruchid
(Bruchus brachialis)
Viburnum aphid
(Anuraphis viburniphila)
Vinegar flies
206, 384
Vine moth^o
(Lobesia botrana)
Virginia-creeper leafhopper
(Erythroneura zizcae)

W

Walkingstick
(Diapheromera femorata)
Walkingsticks
724, 960, 994, 1184
Walnut aphid
(Chromaphis juglandicola)
Walnut blister mite
(Aceria erinea)
Walnut caterpillar
(Datana integerrima)
Walnut husk fly
(Rhagoletis completa)
Walnut scale
(Aspidiotus juglansregiae)
Wasps
15, 301, 496, 590, 930, 964, 998,
1120, 1157, 1220, 1247, 1272,
1299, 1338
Water scavenger beetle, a
135
Webworms
1141, (1279)
Webbing clothes moth
(Tineola bisselliella)
Weevil, a
81
Western balsam bark beetle
(Dryocoetes confusus)
Western bean cutworm
(Loxagrotis albicosta)

Western black flea beetle
(Phyllotreta pusilla)
Western brown stink bug
(Euschistus impictiventris)
Western corn rootworm
(Diabrotica virgifera)
Western drywood termite
(Incisitermes minor)
Western flower thrips
(Franklinella occidentalis)
Western grape leaf skeletonizer
(Harrisina brillians)
Western harvester ant
(Pogonomyrmex occidentalis)
Western hemlock looper
(Lambdina fiscellaria lugubrosa)
Western oak looper
(Lambdina fiscellaria somnaria)
Western peach tree borer
(Sanninoidea exitiosa graefi)
Western pine beetle
(Dendroctonus brevicornis)
Western potato flea beetle
(Epitrix subcrinita)
Western raspberry fruitworm
(Byturus bakeri)
Western spotted cucumber beetle
(Diabrotica undecimpunctata undecimpunctata)
Western subterranean termite
(Reticulitermes hesperus)
Western tent caterpillar
(Malacosoma pluviale)
Western tussock moth
(Homocampa vetusta)
Western yellow-striped armyworm
(Prodenia praefica)
Wheat borer
(Nacardes melanura)
Wheat chaffer^o
(Anisoplia austriaca)
Wheat curl mite
(Aceria tulipae)
Wheat head armyworm
(Faronta diffusa)
Wheat jointworm
(Harmolita tritici)
Wheat midge
(Sitodiplosis mosellana)
Wheat stem maggot
(Meromyza americana)
Wheat stem sawfly
(Cephus cinctus)
Wheat straw-worm
(Harmolita grandis)
Wheel bug
(Arilus cristatus)
White apple leafhopper
(Typhlocyba pomaria)
White garden snail
(Theba pisana)
White peach scale
(Pseudaulacaspis pentagona)
White-banded elm leafhopper
(Scaphoideus luteolus)
White-fringed beetles
(Graphognathus spp.)
White-lined sphinx
(Celerio lineata)
White-marked spider beetle
(Ptinus fur)
White-marked tussock moth
(Homocampa leucostigma)
White-pine aphid
(Cinara strobis)
White-pine cone beetle
(Conophthorus coniperda)
White-pine sawfly
(Neodiprion pinetum)
White-pine weevil
(Pissodes strobis)
White-shouldered house moth
(Endrosia sarcitrella)

White-spotted sawyer
(Monochamus scutellatus)
Whiteflies
79, 81, 83, 104, 206, 211,
217, 228, 239, 241, 242, 245,
395, 396, 486, 555, 645, 716,
789, 822, 823, 950, 1024,
1046, 1079, 1083, 1109, 1116,
1143, (1197), 1242, 1297,
1316, 1332, 1363, 1423
Willow beaked-gall midge
(Phytophaga rigidae)
Willow flea weevil
(Rhynchaenus rufipes)
Winter grain mite
(Penthaeus major)
Winter moth
(Operophtera brumata)
Winter tick
(Dermacentor albipictus)
Wireworms
73, 90, 135, 152, 226, 248,
(271), (272), 392, (446), (447),
(503), (504), (505), 513, 552,
577, 605, 611, 636, 677, 705,
717, 736, 781, 815, (1067),
(1198), 1243, 1264, 1312, (1382),
(1387)
Wolf spiders^o
(1202)
Wood borers
71
Wood cockroaches
(Parcoblatta spp.)
Wool maggots
299, 622, 1087
Woolly alder aphid
(Prociphilus tessellatus)
Woolly apple aphid
(Eriosoma lanigerum)
Woolly elm aphid
(Eriosoma americanum)

Y

Yellow clover aphid
(Therioaphis trifolii)
Yellow jackets
802, 964, 998, 1272, 1319,
1336, 1338, 1366
Yellow mealworm
(Tenebrio molitor)
Yellow mites
28
Yellow peach moth^o
(Dichrocrocis punctiferalis)
Yellow rose aphid
(Acyrtosiphon porosum)
Yellow scale
(Aonidiella citrina)
Yellow sugarcane aphid
(Sipha flava)
Yellow-fever mosquito
(Aedes aegypti)
Yellow-headed spruce sawfly
(Pikonema alaskensis)
Yellow-necked caterpillar
(Datana ministra)
Yellow-striped armyworm
(Prodenia ornithogalli)
Yucca plant bug
(Halticotoma valida)
Yuma spider mite
(Eotetranychus yumensis)

Z

Zebra caterpillar
(Ceramica picta)
Zimmerman pine moth
(Dioryctria zimmermani)

SCIENTIFIC NAMES

<u>Abachrysa eureka</u> (a green lacewing) 47	<u>Aceria tulipae</u> (wheat curl mite) 103, 136, 251, 316, 484, 515, 548, 736, 755, (974), 1174, 1292, 1320	<u>Aculus teucarii</u> 656
<u>Acalles</u> sp. (a weevil) 807	<u>Aceria vaccinii</u> (blueberry bud mite) 611, 1111	<u>Aculus toxicophagus</u> 1355
<u>Acalymma gouldi</u> (a leaf beetle) 238	<u>Achaea catella</u> (a noctuid) 81	<u>Acyrtosiphon barri</u> 84
<u>Acalymma vittata</u> (striped cucumber beetle) 238, 488, 553, 648, 679, 696, 716, 754, 792, 826, 917, 1015, 1050, (1069), (1070)	<u>Achaea janata</u> 93, 535, 970	<u>Acyrtosiphon dirhodum</u> 84, 654
<u>Acanalonia bivittata</u> (a fulgorid planthopper) 800	<u>Achanodes antipathetica</u> (a tineid moth) 18, 418	<u>Acyrtosiphon pelargonii</u> 84, 374
<u>Acanthiophilus eluta</u> (safflower fruit fly*) 1389	<u>Achatina fulica</u> (a giant African snail) 187, 698, 773, 1324	<u>Acyrtosiphon pisum</u> (pea aphid) 11, 27, 43, 84, 103, 139, 155, 156, 157, 175, 216, 231, 252, (274), 280, 316, 325, 361, 389, 408, 410, 412, 413, 414, 432, 441, 442, (444), (445), 454, 472, 474, 477, 487, 498, 500, 509, 521, 532, 533, 536, 543, 552, 573, 581, 589, 590, 602, 613, 638, 647, 660, 670, 677, 707, 715, 736, 747, 754, 783, 792, 817, 851, 859, (887), 908, 916, 945, (973), 981, 1008, 1045, 1075, (1101), 1107, 1138, 1158, (1166), 1174, (1197), 1206, 1238, (1253), 1261, (1279), 1289, 1309, 1329, 1345, 1361, 1373, (1386), 1393, 1405, 1421
<u>Acanthoiyda</u> spp. (web-spinning sawflies) 722	<u>Acheta domesticus</u> (house cricket) 306, 1087, 1121	<u>Acyrtosiphon porosum</u> (yellow rose aphid) 84, 245
<u>Acantholyda erythrocephala</u> (pine false webworm) 722	<u>Achorutes nivicola</u> (a springtail) 6, 419	<u>Acyrtosiphon solani</u> 84, 175, 245, 487, 493, 580, 677, 714, 754, 791, 825, 858, 915, 1014, 1049, 1424
<u>Acanthomia tomentosicollis</u> (a coreid bug) 82	<u>Acinopterus acuminatus</u> 1291	<u>Adalia bipunctata</u> (two-spotted lady beetle) 324, 369, 405, 411, 471, 532, 659, 693, 803, 965, 1188
<u>Acanthomyops</u> spp. . 308, 323	<u>Acleris variana</u> (black-headed budworm) 340	<u>Adalia frigida</u> 414
<u>Acanthomyops interjectus</u> (larger yellow ant) 6, 308, 323, 367, 417, 439, 441, 470, 768, 838, 1157, 1188, 1300	<u>Acmaeodera tubulus</u> (a buprestid beetle) 1362	<u>Adelphocoris</u> spp. 426, 510, 545, 817, 1175
<u>Acanthomyops pogonognus</u> 18	<u>Acritonotus denmarki</u> (a rust mite) 380, 437	<u>Adelphocoris lineolatus</u> (alfalfa plant bug) 73, 161, 426, (445), 478, 510, 545, 574, 604, 640, 671, 708, 748, 784, 852, 909, 946, 1009, 1045, 1076, 1108, 1138, 1175, 1207, 1261
<u>Acanthoscelides obtectus</u> (bean weevil) 306	<u>Acrobasis</u> spp. 610	<u>Adelphocoris rapidus</u> (rapid plant bug) 161, 268, 426, 478, 510, 545, 574, 604, 640, 671, 784, 830, 1138, 1261
<u>Acaphylla steinwedeni</u> (an eriophyid mite) 380	<u>Acrobasis caryae</u> (pecan nut casebearer) 203, 395, 431, 461, 486, 550, 585, 610, 644, 654, 675, 685, 724, 752, 762, 789	<u>Adelphocoris superbus</u> (superb plant bug) 640, 708, 909, 1020, 1207
<u>Acarapis dorsalis</u> (a bee mite) 18	<u>Acrobasis caryivorella</u> 204	<u>Adistemia watsoni</u> (a lathridiid beetle) 472
<u>Acarus siro</u> (grain mite) 303, 384, 623, 839	<u>Acrobasis indigenella</u> (leaf crumbler) 180, 199, 377, 430, 466	<u>Adoretus sinicus</u> (Chinese rose beetle) 895, 1340
<u>Acedes fuscipunctella</u> (a tineid moth) 659, 872	<u>Acrobasis juglandis</u> (pecan leaf casebearer) 203, 362, 431, 461, 518, 550, 579, 610, 644, 675, 1177	<u>Aedes</u> spp. 74, 292, 293, 367, 403, 438, 469, 496, 531, 563, 622, 658, 691, 727, 765, 871, 963, 995, 996, 1025
<u>Aceratagallia</u> sp. 361	<u>Acrolophus</u> spp. (burrowing web- worms) 851, 911	<u>Aedes aegypti</u> (yellow-fever mosquito) 81
<u>Aceratagallia sanguinolenta</u> (clover leafhopper) 160, 317, 427, 478, 639, 671, 709, 946, 1045, 1096, 1140, 1291	<u>Acronicta americana</u> (American dagger moth) 301, 347, 1023, 1083, 1151	<u>Aedes atlanticus</u> 292
<u>Aceria</u> spp. (eriophyid mites) 14	<u>Acronicta lepusculina</u> (cottonwood dagger moth) 1244	<u>Aedes atlanticus tormentor</u> 1216
<u>Aceria aloinis</u> 380	<u>Acronicta obliqua</u> (smeared dagger moth) 704	<u>Aedes atropalpus</u> 469
<u>Aceria boycei</u> 1355	<u>Acrosternum hilare</u> (green stink bug) 173, 231, 717, 817, (894), 983, 1046, 1113, 1140, 1207	<u>Aedes campestris</u> 563
<u>Aceria brachytarsus</u> 752	<u>Aculus cornutus</u> (peach silver mite) 180, 201, 984, (1097), 1142, 1347	<u>Aedes canadensis</u> 220, 285, 403, 496, 530, 563
<u>Aceria camelliae</u> 380	<u>Aculus dubius</u> 18, 484	<u>Aedes cantator</u> (brown salt-marsh mosquito) 496
<u>Aceria caryae</u> (pecan leafroll mite) 727, 762, 822	<u>Aculus fockeui</u> (plum rust mite) 201	
<u>Aceria cynodonis</u> 1075	<u>Aculus lycopersici</u> (tomato russet mite) 228, 754, 1112, (1196)	
<u>Aceria erinea</u> (walnut blister mite) 1408	<u>Aculus massalongoi</u> 1270	
<u>Aceria fraxinivorus</u> 617, 687	<u>Aculus pelekassi</u> (a pink citrus rust mite) 18, 212, 218, 396, 432, 461, 487, 579, 710, 753, 789, 857, 950, 984, 1011, 1143, 1178, 1210, 1241, 1265, 1341, 1342, 1394, 1400, 1426	
<u>Aceria knorrii</u> 380, 436	<u>Aculus schlechtendali</u> (apple rust mite) 196, 474, 517, 786, 1110	
<u>Aceria neocynodonis</u> (a Bermuda- grass mite) 18, 171, 360, 911, 1047, 1208		
<u>Aceria paracalifornica</u> 171		
<u>Aceria paradianthi</u> 380		
<u>Aceria parapopuli</u> 1085		
<u>Aceria peucedani</u> 953		
<u>Aceria sheldoni</u> (citrus bud mite) 75, 212, 1341, 1342, 1400		
<u>Aceria swezeyi</u> 17		

Aedes cinereus
292, 403, 563
Aedes dorsalis
292, 293, 322, 563, 587, 622,
658, 691, 727, 836, 927, 928,
996, 1087, 1119
Aedes excrucians
1216
Aedes fitchii
292, 563
Aedes flavescens
293
Aedes grossbecki
403, 563, 691
Aedes impiger
469
Aedes increpitus
322
Aedes infirmatus
1216, 1318, 1398
Aedes mitchellae
403, 530
Aedes nigromaculis
836, 928, 996, 1119
Aedes sierrensis
293
Aedes sollicitans (salt-marsh
mosquito) 117, 291, 367, 403,
658, 728, 871, 928, 1025, 1216,
1298, 1318, 1351, 1366, 1408
Aedes spencerii
563, 622, 1217
Aedes sticticus (floodwater
mosquito) 322, 530, 563, 691
Aedes stimulans
292, 322, 403, 1217
Aedes taeniorhynchus
291, 292, 800, 871, 1025, 1298,
1318, 1351, 1366
Aedes triseriatus
292, 293, 1056
Aedes trivittatus
293, 691, 1056
Aedes vexans 255, 291, 292, 293,
563, 587, 622, 658, 691, 727,
765, 800, 836, 871, 928, 963,
995, 996, 1025, 1056, 1119,
1216, 1298, 1318, 1351
Aedes vexans nocturnus
18, 94
Aegeria tibialis (a clearwing moth)
340
Aelia spp. (stink bugs)
69, 74
Aelia melanota
73
Aeolesthes sarta (a cerambycid)
74
Aeolopides minor (a grasshopper)
846
Aeolopides turnbulli
483, 633
Aeropedellus clavatus (a grasshopper)
541
Africonidia africana (a coccid)
82
Agallia constricta (a leafhopper)
362
Agathis agilis (a parasitic braconid)
1354
Agathis pumilus
412
Ageneotettix deorum (a grasshopper)
126, 127, 128, 483, 541, 573,
601, 633, 665, 666, 701, 702,
741, 779, 813, 845, 902, 1205
Ageneotettix deorum deorum
509, 633, 702
Agistemus fleschneri (a stigmæid
mite) 1241
Agkistrocerus megerlei (a tabanid
fly) 729
Aglossa caprealis (a pyralid moth)
1337

Agonoderus lecontei (seed-corn
beetle) 234, 577, 704, (1099)
Agonoscelis versicolor (Sudan durra
bug") 82
Agonosca targionii (pistachio
psyllid") 72
Agonum maculicollis (tule beetle)
305
Agrilus sp.
618
Agrilus anxius (bronze birch borer)
335, 465, 618, 723, 833, 1214
Agrilus arcuatus
1053
Agrilus bilineatus (two-lined
chestnut borer) 834
Agrilus hyperici
411
Agrilus rubicola (rose stem girdler)
243, 1211
Agrilus ruficollis (red-necked
cane borer) 243, 648
Agriotes sp. (a wireworm)
502
Agrius cingulatus (sweetpotato
hornworm) 488, 521, 1145,
1179
Agroiconota bivittata (a tortoise
beetle) 553, 694, 827, 987
Agronus cinerarius (a weevil)
1315
Agromyza parvicornis (corn blotch
leaf miner) 153, 637, 668,
706, 744
Agrotis spp.
70, 72, 74, 77
Agrotis dislocata
535
Agrotis gladiaria (clay-backed
cutworm) 605
Agrotis ipsilon (black cutworm)
47, 76, 93, 139, 143, 150, 223,
226, 253, 259, 289, 326, 359,
370, 407, 443, 473, 501, 522,
534, 547, 567, 568, 591, 605,
626, 627, 635, 646, 661, 662,
667, 696, 697, 704, 715, 734,
735, 736, 771, 772, 805, 806,
841, 842, 876, 877, 884, 905,
934, 935, 936, 937, 938, 944,
953, 967, 968, 969, 983, 1001,
1002, 1011, 1015, 1032, 1033,
1034, 1062, 1063, (1067), 1090,
1091, 1092, 1123, 1124, (1130),
1160, 1161, 1190, 1191, 1221,
1222, 1251, 1252, 1275, 1276,
1303, 1321, 1322, 1339, 1356,
1370, 1380, 1401, 1412
Agrotis orthogonia (pale western
cutworm) 134, 455, 547, 1159,
1176, 1220, 1249, 1401
Agrotis segetum (turnip moth")
75
Ahasverus advena (foreign grain
beetle) 629, 1337
Alabama argillacea (cotton leafworm)
267, 523, 650, 682, 881, 920,
956, 991, 1006, 1019, 1030,
1052, 1061, 1081, 1082, 1115,
1146, 1181, 1212, 1243, 1245,
1268, 1294, 1333, 1338, 1368,
1395, 1400
Aleurocanthus woglumi (citrus
blackfly) 12, 55, 87, 97,
217, 260, 281, 409, 431, 752,
807, 895, 970, 1064, 1078,
1144, 1249, 1265, 1363, 1418,
1422
Aleurogryphus ovatus (an acarid
mite) 999
Aleurolobus niloticus (a whitefly)
77
Aleuroplatus spp. (whiteflies)
726, 1184

Aleuroplatus coronatus
994
Aleuroplatus gelatinosus
436, 726
Aleurotrachelus jelinekii (a
whitefly) 365, 436
Aleyrodes sp. (a whitefly)
436
Aleyrodes brassicae
1418
Aleyrodes spiraeoides
119, 228, 1014
Allantus cinctus (curled rose
sawfly) 1317
Alphitobius diaperinus (lesser
mealworm) 47, 328, 405, 416,
1219, 1233, 1301, 1320, 1379,
1399, 1411
Alsophila pometaria (fall canker-
worm) 105, 198, 343, 400, 491,
525, 558, 584, 644, 653, 685,
723, 762, 867, 1151, 1244, 1269,
1297, 1316, 1334, 1402
Altica spp.
363, 461
Altica chalybea (grape flea
beetle) 396, 431, 487, 518,
551, 579
Altica litigata
485, 493
Altica ludoviciana
1118
Altica lythri ampelophaga
75
Altica marevagans
493
Altica pyritosa
83
Altica sylvia
207
Altica torquata
560
Altica ulmi (elm flea beetle)
337
Alydus pilosulus (an alydid bug)
535
Alypia octomaculata (eight-spotted
forester) 205
Amathes c-nigrum (spotted cutworm)
660, 711, 1110, 1401
Amblyomma americanum (lone star
tick) 67, 220, 302, 322, 404,
438, 469, 531, 589, 622, 658,
692, 838, 872, 1059, 1424
Amblyomma maculatum (Gulf Coast
tick) 302
Amblyseius sp. (a mite)
171
Amitus hesperidum (a parasitic
platygasterid) 282, 431, 1363,
1422
Amolita obliqua (a noctuid moth)
324
Amorbia sp. (a leaf roller moth)
140, 430, 435
Amorbia essigana
115, 318
Ampelogypter ater
206
Ampelogypter sesostris (grape cane
gall maker) 206
Amphicerus sp.
466
Amphicerus bicaudatus (apple twig
borer) 180, 193, 205, 430, 466
Amphicerus cornutus
365, 466, 1117
Amphimallon majalis (European
chafer) 16, 170, 515, 668,
770, 840, 874, 933, 1061, 1159,
1219, 1378, 1402
Amphitornus coloradus (a grasshopper)
126, 127, 483, 509, 541, 573,
665, 702, 741, 813, 902, 1041

- Amphorophora nervata (an aphid)
466
- Anabrus simplex (Mormon cricket)
130, 393, 627, 634, 846, 942
- Anacamptodes fragilaria (a geometrid moth)
535
- Anacridium moestum melanorhodon (a tree locust)
78
- Anagasta künniella (Mediterranean flour moth)
143, 383, 1187, (1202), 1300, 1337, 1368
- Anagrus sp. (a parasitic mymarid)
413
- Anaphothrips obscurus (grass thrips)
1208
- Anaphothrips zeae (=longipennis)
669
- Anarsia lineatella (peach twig borer)
104, 198, 216, 317, 430, 459, 485, 549, 643, 673, 711, 984, 1012, (1097), 1177, (1199), 1347
- Anasa spp.
755
- Anasa armigera (horned squash bug)
755, 987, 1266
- Anasa tristis (squash bug)
239, 648, 679, 755, 793, 826, 917, 987, 1015, 1080, 1242, 1266
- Anastrepha sp.
895
- Anastrepha fraterculus
260
- Anastrepha ludens (Mexican fruit fly)
55, 63, 87, 97, 217, 260, 282, 409, 418, 487, 502, 551, 675, 752, 807, 914, 970, 983, 1048, 1064, 1110, 1143, 1210, 1241, 1265, 1293, 1313, 1331, 1348, 1362, 1374, 1418, 1422
- Anastrepha striata
1144
- Ancylis sp.
793
- Ancylis comptana fragariae (strawberry leaf roller)
244, 433, 488, 521, 554, 649, 716, 1016, (1254)
- Andrena spp. (andrenid bees)
440, 624
- Andricus confertus (a cynipid wasp)
1245
- Andricus fullawayi
1245
- Andricus kingi
1245
- Andricus parmula
994
- Anisomorpha buprestoides (two-striped walkingstick)
1270, 1317
- Anisoplia austriaca (wheat chafer)
98
- Anisota spp.
341, 993
- Anisota rubicunda (green-striped mapleworm)
341, 491, 797
- Anisota senatoria (orange-striped oakworm)
341, 414, 923, 959, 1054, 1214
- Anisota stigma (spiny oakworm)
723, 1143
- Anomala spp.
416, 518
- Anomala nigropicta
104
- Anomala oblivia (pine chafer)
338, 721
- Anomala undulata
815
- Anomoea laticlavata (a leaf beetle)
686, 722, 833
- Anopheles spp. (mosquitoes)
292, 469, 658, 1156
- Anopheles barberi
530
- Anopheles crucians
285, 291, 322, 403, 871, 1025, 1351
- Anopheles funestus
81
- Anopheles gambiae
81
- Anopheles punctipennis
285, 292, 658, 1156, 1217
- Anopheles quadrimaculatus (common malaria mosquito)
292, 622, 658, 871, 1025, 1156, 1217, 1351
- Anoplitis inaequalis (a leaf beetle)
722
- Anormenis septentrionalis (a flatid planthopper)
869
- Anteotricha manzanitae (a stenomid moth)
140
- Antheraea polyphemus (polyphemus moth)
418
- Anthocoris musculus (an anthocorid bug)
414
- Anthonomus sp.
1424
- Anthonomus grandis (boll weevil)
4, 262, 263, 319, 320, 363, 399, 433, 463, 489, 523, 554, 583, 614, 649, 681, 718, 736, 757, 793, (809), 829, 862, 881, 918, 954, 989, 1000, 1018, 1051, 1082, 1115, 1146, 1181, 1211, (1224), 1243, (1257), 1268, (1280), 1333, 1349, 1375, 1413
- Anthonomus grandis thurberiae (thurberia weevil)
1375
- Anthonomus scutellaris (plum gouger)
201
- Anthonomus signatus (strawberry weevil)
244, 398, 462, 488, 521, 554, 580, 680
- Anthophila pariana (apple-and-thorn skeletonizer)
188, 1012
- Anthrax distigma (a bombyliid fly)
971
- Anthrenus spp.
77, 304, 324, 1398
- Anthrenus flavipes (furniture carpet beetle)
143, 286, 304, 368, 381, 1337, 1354, 1378
- Anthrenus scrophulariae (carpet beetle)
304, 323, 438, 497, 1354
- Anthrenus verbasci (varied carpet beetle)
304, 323, 768
- Anticarsia gemmatilis (velvetbean caterpillar)
173, 854, 947, 1010, 1046, 1109, 1113, 1179, 1205, (1226), 1263
- Antigastra catalaunalis (a sesame pod borer)
77
- Antonina bambusae
181, 365
- Antonina graminis (Rhodes-grass scale)
170, 515, 912, 1047
- Antonina pretiosa
19
- Antron clavata (a gall wasp)
1245
- Antron douglasii
1245
- Anuraphis bakeri (clover aphid)
158, 288, 478, 574, 603, 708, 909
- Anuraphis foeniculus
77
- Anuraphis helichrysi
77, 643, 788
- Anuraphis maidiradicis (corn root aphid)
636, 668
- Anuraphis persicaeniger (black peach aphid)
199
- Anuraphis rosea (rosy apple aphid)
76, 192, 394, 430, 459, 471, 474, 485, 516, 549, 578, 642, 674, 712, 1197
- Anuraphis tulipae (tulip bulb aphid)
77
- Anuraphis viburnicola (snowball aphid)
493, 619
- Anuraphis viburniphila (viburnum aphid)
436
- Aonidiella aurantii (California red scale)
28, 71, 75, 104, 139, 209, 219, 318, 461, 1111, (1197), 1265, 1335, 1394
- Aonidiella citrina (yellow scale)
71, 73, 82, 104, 209, 396, 401, 461, 486, 644, 645, 789, 823, 926, 950, 1012, 1079, 1143, (1197), 1241, 1242, 1293, 1331, 1363, 1406, 1423
- Aonidiella taxus
436, 493, 656, 926, 961
- Apanteles spp. (parasitic braconids)
236, 412
- Apanteles bedelliae
290
- Apanteles congregatus
1060
- Apanteles militaris
535
- Aphelinus spp. (parasitic eulophids)
413
- Aphelinus gossypii
413
- Aphelinus varipes
413
- Aphidius spp. (parasitic braconids)
413, 509
- Aphidius smithi
660
- Aphis spp.
75, 560, 683
- Aphis abietina (spruce aphid)
374, 435, 560, 1084
- Aphis bonnevillensis
1396
- Aphis coreopsidis
1334
- Aphis craccivora (cowpea aphid)
72, 76, 77, 78, 280, 555, 683, 720, 748, 759, 952, 1210, 1266
- Aphis crataegifoliae
1316
- Aphis fabae (bean aphid)
30, 72, 73, 76, 117, 168, 232, 374, 764, 859, 952, 986, 1016, (1038), 1314
- Aphis forbesi (strawberry root aphid)
245, 756, 1113
- Aphis gossypii (cotton aphid, melon aphid)
30, 70, 72, 80, 83, 210, 239, 245, 268, 364, 374, 397, 399, 433, 462, 463, 466, 487, 490, 492, 521, 523, 527, 532, 555, 583, 648, 650, 683, 720, 793, 864, 953, 957, 1000, 1015, 1020, 1053, 1081, 1116, 1147, 1182, (1197), 1212, 1242, 1244, 1266, 1268, 1314, 1315, 1333, 1362, 1375, 1424
- Aphis helianthi
654
- Aphis illinoisensis (grapevine aphid)
487, 580
- Aphis nasturtii (buckthorn aphid)
319, 677, 714, 754, 791, 825, 858, 915, 952, 986, 1014, 1049
- Aphis nerii (oleander aphid)
321, 365, 435, 466, 527, 1084

- Aphis pomi (apple aphid)
191, 394, 430, 459, 485, 516,
527, 549, 578, 609, 642, 674,
712, 751, 788, 821, 855, 925,
949, (1168), (1197), 1402
- Aphis rubifolii
1267
- Aphis rumicis
552
- Aphis sacchari
82
- Aphis sambucifoliae
374
- Aphis sorghi (durra aphid°)
82
- Aphis spiraeicola (spirea aphid)
44, 88, 210, 365, 401, 492,
560, 619, 645, 654, 688, 753,
799, 1245
- Aphodius distinctus (a scarab)
1079
- Aphrophora spp.
684, 760, 832
- Aphrophora parallela (pine
spittlebug) 352, 492, 524,
557, 584, 652, 684, 760, 761,
832, 866
- Aphrophora saratogensis (Saratoga
spittlebug) 352, 684, 760,
832, 865
- Aphycus helvolus (a parasitic
encyrtid) 71, 78
- Aphytis sp. (a parasitic eulophid)
413
- Aphytis coheni
413
- Aphytis holoxanthus
209, 210
- Aphytis lepidosaphes
210
- Aphytis lingnanensis
413
- Aphytis melinus
413
- Apiomerus crassipes (an assassin
bug) 660
- Apion carduorum
895, 1249
- Apion hibisci
19, 95
- Apion longirostre (hollyhock
weevil) 619, 688, 1334
- Apion ulicis (a gorse weevil)
411
- Apis mellifera (honey bee)
412, 532, 565, 590, 625, 660,
731, 999, 1156, (1202)
- Aplomya caesar (a tachina fly)
1029
- Aplonobia myops (a spider mite)
241
- Apterona crenulella (a psychid
moth) 32, 219, 221, 418,
798, 1054, 1368
- Apus sp. (a tadpole shrimp) (see
Triops sp.)
- Apus oryzaphagus (see Triops
longicaudatus)
- Araecerus fasciculatus (coffee bean
weevil) 1399
- Araecorynus cumingi (an anthribid
beetle) 1223
- Archips argyrospilus (fruit-tree
leaf roller) 190, 191, 199,
211, 377, 459, 474, 517, 528,
548, 559, 578, 608, 619, 687,
750, 788, 821
- Archips cerasivoranus (ugly-nest
caterpillar) 191, 340
- Archips fervidanus (oak webworm)
340, 833, 923
- Archips infumatus
528
- Archips rosaceanus (oblique-banded
leaf roller) 580, 724, 821
- Archips rosana
204, 430, 551, 610, 822
- Arctia sp. (an arctiid caterpillar)
70
- Arctorthesia sp.
1335
- Arctorthesia occidentalis (an ensign
scale) 1093
- Arenipses sabella (greater date
moth°) 72
- Argas sp.
74
- Argas persicus (fowl tick)
107
- Argiope spp. (orb weaver spiders)
186, 1159
- Argiope amoena
1223
- Argiope aurantia
1159
- Argiope trifasciata
1159
- Argyresthia spp.
377
- Argyresthia thuella (arborvitae
leaf miner) 377, 378, 798, 834
- Argyrotaenia sp.
340
- Argyrotaenia citrana (orange tortrix)
211, 243, 559, 580, (1199),
1216, 1396
- Argyrotaenia franciscana
993
- Argyrotaenia pinatubana (pine tube
moth) 340, 1296
- Argyrotaenia velutinana (red-
banded leaf roller) 190, 206,
361, 393, 430, 459, 474, 484,
517, 548, 556, 559, 608, 642,
673, 787, 821, 855, 949, 984
- Argyrotoxa semipurpurana (a leaf
roller) 465, 654, 1152
- Arhyssus scutatus (a grass bug)
46, 133, 307, 803, 1273, 1378,
1398, 1410
- Arilus sp.
722
- Arilus cristatus (wheel bug)
414, 1121
- Arion ater (a slug)
419, 533, 869, 1402
- Aroga websteri (sagebrush
defoliator) 27, 169, 342,
732, 851, 911, 947, 1075, 1316
- Arphia conspersa
483, 541, 590, 666
- Arphia pseudonietana
499, 590
- Arphia sulphurea
665
- Asciodes gordialis (a pyraustid
moth) 1184
- Aspavia vittiventris (a stink bug)
82
- Aspidiotiphagus lounsburyi
(a parasitic eulophid) 413
- Aspidiotus ancylus (Putnam scale)
914, 995
- Aspidiotus californicus (black
pine leaf scale) 354, 373,
464, 1189
- Aspidiotus camelliae (greedy
scale) (1197)
- Aspidiotus coniferarum
372
- Aspidiotus cyanophylli
528, 926
- Aspidiotus degeneratus
181, 372
- Aspidiotus densiflorae
65
- Aspidiotus destructor (coconut
scale) 467
- Aspidiotus diffinis
19
- Aspidiotus ehrhorni
835
- Aspidiotus forbesi (Forbes scale)
1209
- Aspidiotus hederæ (oleander scale)
82, 83, 255, 372, 586, 1154,
1335
- Aspidiotus juglansregiae (walnut
scale) 181, 493, 1142, 1421
- Aspidiotus lataniae 65, 106,
141, 180, 207, 284, 799, 961,
995, 1056, 1350
- Aspidiotus liquidambaris
354, 868, 1055
- Aspidiotus perniciosus (San Jose
scale) 44, 181, 192, 199,
202, 281, 284, 317, 362, 365,
372, 460, 485, 518, 549, 566,
585, 586, 609, 655, 674, 713,
751, 764, 835, 855, 914, 985,
1048, 1077, 1118, 1142, (1168),
1184, (1197), 1209, 1264, 1292,
1312, 1347, 1377, 1408, 1422
- Aspidiotus populorum
1184
- Aspidiotus spinosus
1154
- Aspidiotus uvae (grape scale)
206, 950
- Aspidiotus yuccae
1424
- Asterocampa clyton (a nymphalid)
560
- Asterolecanium spp. (pit scales)
1184, 1298
- Asterolecanium arabidis
65, 374, 688, 925
- Asterolecanium bambusae
65, 365, 689
- Asterolecanium miliaris miliaris
65
- Asterolecanium minus
354, 655, 834, 1153, 1215, 1350
- Asterolecanium pustulans
281, 284, 436, 1056
- Asterolecanium puteanum
65, 365, 493, 527, 1055
- Asterolecanium variolosum
(golden oak scale) 559
- Atomaria linearis (pigmy mangold
beetle°) 569
- Atta texana (Texas leaf-cutting
ant) 255, 318, 527
- Attagenus spp.
77, 304, 381, 438, 1219, 1229,
1232, 1233
- Attagenus piceus (black carpet
beetle) 46, 183, 221, 304,
323, 367, 368, 381, 442, 469,
497, 623, 658, 693, 768, 1158,
1219, 1229, 1272
- Atteva aurea (ailanthus webworm)
377, 960
- Aulacaspis rosae (rose scale)
365
- Aulocara sp.
499
- Aulocara elliotti (a grasshopper)
125, 126, 128, 483, 541, 601,
633, 665, 666, 701, 741, 779,
780, 813, 845, 846, 902, 977,
1025, 1041
- Austrotortrix postvittana (light-
brown apple moth°) 895, 970,
1249
- Autographa californica (alfalfa
looper) 165, 166, 168, 231,
233, 236, 243, (444), 604,
736, 911, 1109

Autographa gamma (silver-Y moth°)
75
Automeris io (io moth)
1145
Autoserica castanea see Maladera
castanea

B

Baccha notata (a flower fly)
47
Bagnallielia yuccae (a yucca
thrips) 4
Bagrada hilaris (bagrada bug°)
1169
Banchus cressonii (a parasitic
ichneumon) 222
Barbara colfaxiana (a Douglas-fir
cone moth) 347
Baris sp. (a weevil)
97
Baris granulipennis
73
Baris lepidii
260
Bathyplectes curculionis (a
parasitic ichneumon) 413,
471, 498, 533, 536, 1096
Batodes angustiorana (a leaf
roller moth) 528
Batrachedra amydraula (lesser date
moth°) 72
Bedellia orchilella (sweetpotato
leaf miner) 290
Bedellia somnulentella (morning-
glory leaf miner) 1145, 1267,
1348
Bembecia marginata (raspberry
crown borer) 243, 987, 1324
Bembidion sp. (a ground beetle)
305
Bemisia sp.
807
Bemisia tabaci (sweetpotato
whitefly) 74, 80, 269
Bittacus pillicornis
19, 419
Blaps lethifera (a darkling beetle)
416, 1400
Blapstinus spp. (darkling beetles)
206, 216, 226, 305, 399, 730,
914, 964, (1198)
Blapstinus substriatus
135
Blatta orientalis (oriental
cockroach) 143, 183, 306,
323, 439, 497, 564, 623, 693,
1088, 1121, 1186, (1202), 1218,
1425
Blattella germanica (German
cockroach) 183, 306, 323, 629,
693, (1202), 1337, 1410
Blattella vaga
1400
Blennocampa pusilla (rose sawfly°)
409
Blepharida rhois (a flea beetle)
493
Blera notata (a flower fly)
324
Blissus spp.
513, 515
Blissus leucopterus (chinch bug)
153, (272), (273), 316, 359,
429, 513, 547, 636, 668, 706,
745, 782, 816, 907, 945, 980,
1008, 1138, 1174, 1261, 1289,
1329, (1382), (1383), 1405, 1421
Blissus leucopterus hirtus (hairy
chinch bug) 170, 669, 948
Blissus leucopterus insularis
170, 457, 482, 745, 849, 851,
948, 1011, 1047, 1141, 1176

Blosyrus rugulosus abyssinicus
(a weevil) 83
Bombus sp. (a bumble bee)
965
Bomolocha abalienalis (a noctuid
moth) 1188
Bondia comonana (a carposinid moth)
1265
Boophilus annulatus (cattle tick)
302
Boophilus microplus (southern
cattle tick) 302
Bothynus gibbosus (carrot beetle)
521, 553
Bourletiella hortensis (garden
springtail) 399, 433, 518, 614
Bovicola spp.
(1199)
Bovicola bovis (cattle biting louse)
142, 220, 257, 300, 730
Bovicola equi (horse biting louse)
531
Bovicola ovis (sheep biting louse)
31, 107, 930
Brachycerus sp. (a weevil)
97
Brachycolus noxius see Cuernavaca
noxius
Brachymeria euploae (a chalcid)
81
Brachyptera pallida (a stonefly)
522
Brachyrhinus spp.
466, 586, 930, 1078, 1080, 1184
Brachyrhinus cribricollis 75, 305,
378, 521, 915, 987, 1111
Brachyrhinus meridionalis
1024
Brachyrhinus ovatus (strawberry
root weevil) 207, 243, 244,
305, 338, 378, 466, 474, 533,
872, 930, 964, 998, 1028, 1060,
1122, 1157, 1402
Brachyrhinus rugosostriatus
19, 251, 305, 930, 961
Brachyrhinus sulcatus (black vine
weevil) 44, 207, 244, 305,
378, 493, 560, 586, 687, 725,
763, 998, 1154, 1402
Brachys ovatus (a buprestid)
335
Brachytrupes megacephalus (a mole
cricket) 77
Bracon hebetor (a parasitic braconid)
629
Bracon mellitor
1301
Brevicoryne brassicae (cabbage
aphid) 64, 72, 73, 77, 78,
79, 88, 116, 140, 218, 237,
252, 282, 318, 410, 432, 487,
519, 581, 613, 678, 826, 916,
1015, 1049, (1065), (1066),
1080, 1113, 1179, (1197), 1266,
1294, 1314, 1332, 1364, 1402,
1407
Brevipalpus spp. (false spider mites)
212, 823, 950
Brevipalpus lewisi (citrus flat
mite) 212, 644, 823, 1048,
1078, 1293, 1331, 1348, 1363
Brevipalpus obovatus (privet mite)
76, 926, 1118, 1317, 1335, 1351
Brevipalpus phoenicis
95, 494
Brochymena spp.
471, 932
Brochymena quadripustulata (a stink
bug) 17, 93, 186, 1060
Bruchophagus spp.
672
Bruchophagus platyptera (a clover
seed chalcid) 167, 604, 641,
672

Bruchophagus roddi (an alfalfa
seed chalcid) 167, 672, 911,
982, 1009, 1045, 1292
Bruchus spp. (bruchids)
260, 628
Bruchus atronotatus
94
Bruchus brachialis (vetch bruchid)
165, 222, 454, 480, 512, 543,
575, 638, 946
Bruchus dentipes
260
Bruchus ervi
260
Bruchus guttalis
260
Bruchus lentis
260
Bruchus pisorum (pea weevil)
231, 628, 647, 677, 754, 1230
Bruchus rufimanus (broadbean weevil)
1230, 1231, 1368
Bruchus signaticornis
260
Bruchus tristis
260
Bryobia spp.
380, 515
Bryobia eharai
1064
Bryobia praetiosa (clover mite)
67, 119, 143, 180, 182, 184, 222,
232, 257, 287, 308, 323, 325,
368, 404, 439, 470, 474, 497,
515, 531, 546, 556, 564, 623,
695, 768, 999, 1158, (1196),
1300, 1398, 1410
Bryobia rubrioculus (a fruit-tree
mite) 71, 73, 76, 196, 202,
395, 431, 461, 484, 641, 711,
751, 820, 948
Bryobia spica
380
Bucculatrix ainsliella (oak
skeltonizer) 347, 1117
Bucculatrix albertiella (a
casemaker) 1023
Bucculatrix canadensisella (birch
skeltonizer) 19
Bucculatrix thurberiella (cotton
leaf perforator) 266, 267,
555, 830, 864, 920, 956, 991,
1020, 1052, 1116, 1146, 1182,
(1198), 1212, 1294
Bucculatrix tridenticola (a
lyonetiid moth) 1396
Byturus bakeri (western raspberry
fruitworm) 580
Byturus rubi (eastern raspberry
fruitworm) 243, 554

C

Cacoeimorpha pronubana (a
tortricid moth) 77, 97
Cactoblastis cactorum (a pyralid
moth) 698
Cadra cautella* (almond moth)
383, 629
Caenurgina crassiuscula (clover
looper) 427
Caenurgina erechtea (forage looper)
456, 749
Calacarus carinatus (an eriophyid
mite) 380
Calaphis betulaeicola (a birch
aphid) 527, 654
Calaphis coloradensis
764

*Whalley, P.E.S. 1960. Ent. Gaz.
11(4):183-184.

- Calidea bohemani (a stink bug)
83
- Caliroa sp.
1117
- Caliroa cerasi (pear-slug)
194, 200, 351, 379, 712, 822,
856, 913, 949, 985, 1048, 1056,
1077, 1240, 1313, 1347
- Callidium antennatum var. hesperum
(black-horned pine borer) 306
- Callidium rufipenne
1340
- Calligrapha sp.
417
- Calligrapha scalaris (elm
calligrapha) 400, 526, 559,
1151
- Calliphora spp. (blow flies)
299, 307
- Calliptamus spp.
71, 73
- Calliptamus italicus (Italian
locust or Italian grasshopper)
69
- Callirhytis cornigera (a gall wasp)
763
- Callirhytis floridana
466
- Callirhytis punctata
255, 321, 686
- Callirhytis seminosa
1350
- Callirhytis suttoni
284
- Callisto geminatella (unspotted
tentiform leaf miner) 188,
430, 485, 517, 1312
- Callosobruchus analis (a bruchid)
807, 1340
- Callosobruchus maculatus (cowpea
weevil) 382, 999, 1060, 1187,
1230, 1337
- Callyntrotus schlechtendali (an
eriophyid mite) 117
- Calocalpe undulata (a geometrid
moth) 1153
- Caloglyphus sp.
106
- Caloglyphus berlessei
629
- Caloglyphus mycophagus
419
- Caloglyphus spinitarsus
141
- Calomycterus setarius (a Japanese
weevil) 305, 755, 834, 1273
- Calosoma spp. (ground beetles)
305, 411, 1157
- Calosoma calidum (fiery hunter)
769
- Calpodes ethlius (larger canna
leaf roller) 466, 869, 1184
- Cameraria spp.
344
- Cameraria caryaefoliella
1292
- Cameraria cincinnatiella
(gregarious oak leaf miner)
653, 723, 923, 993
- Cameraria hamadryadella (solitary
oak leaf miner) 344, 797
- Camnula sp.
845
- Camnula pellucida (clear-winged
grasshopper) 125, 128, 458,
483, 541, 573, 601, 633, 666,
701, 780, 814, 845, 846, 901,
902, 1041, 1205
- Camponotus spp.
90, 223, 258, 287, 308, 309,
324, 439, 470, 497, 556, 589,
623, 625, 659, 693, 730, 732,
768, 803, 964, 998, 1000
- Camponotus essigi
367, 404
- Camponotus ferrugineus (red
carpenter ant) 470, 693, 730
- Camponotus herculeanus
308, 629
- Camponotus pennsylvanicus (black
carpenter ant) 183, 309, 367,
439, 470, 497, 564, 625, 730,
768, 803, 931, 1028, 1378, 1379
- Camponotus rasilis
19
- Capitophorus hippophaes (an aphid)
14, 1317
- Capnodis spp. (flatheaded wood
borers) 72
- Capnodis cariosa
74
- Capnodis miliaris
72
- Capnodis tenebrionis (peach
buprestid) 75
- Cardiochiles nigriceps (a parasitic
braconid) 1301
- Cardiophorus spp. (wireworms)
165, 226, 242
- Carpocapsa pomonella (codling moth)
44, 70, 71, 73, 75, 76, 189,
190, 199, 203, 361, 393, 429,
459, 484, 516, 548, 556, 578,
607, 642, 673, 696, 710, 750,
787, 821, 855, 913, 936, 937,
949, 967, 969, 984, 1001, 1002,
1012, 1033, 1047, 1048, 1062,
1077, 1089, 1090, (1098), 1110,
1142, (1168), (1198), 1209,
1240, (1254), 1292, 1321, 1347,
1362, 1412
- Carpophilus spp.
318, 383, 1314, 1374
- Carpophilus antiquus (antique sap
beetle) 847
- Carpophilus dimidiatus (corn sap
beetle) 1228, 1229, 1231,
1232, 1233
- Carpophilus freemani
318
- Carpophilus hemipterus (dried-
fruit beetle) 1015, 1061,
1267, 1314, 1374
- Carpophilus humeralis
499, 1015, 1208, 1364, 1374
- Carpophilus lugubris (dusky sap
beetle) 152, 318, 744, 814,
847, 848, 980, 1043, 1138
- Carpophilus marginellus
318
- Carpophilus melanopterus
19
- Carposina niponensis (peach fruit
moth) 97, 502, 970, 1249
- Casama innotata (a tussock moth)
77
- Catabena esula (a noctuid moth)
1216
- Cathartus quadricollis (square-
necked grain beetle) 1231,
1232, 1319
- Catocala spp.
518, 1016
- Catocala agrippina (a pecan
catocala) 347
- Catocala maestosa
1089
- Caulocampus acericaulis (maple
petiole borer) 351, 618,
655, 686
- Cavahylopterus granearum see
Quernavaca noxius
- Cavahylopterus noxius see
Quernavaca noxius
- Cavariella aegopodii (an aphid)
77, 83
- Cecidomyia sp.
285
- Cecidomyia balsamicola (balsam
gall midge) 356, 584, 684,
958, 993
- Cecidomyia pinirigida
379, 1316
- Cecidomyia viticola
206, 823
- Celama sorghiella (sorghum
webworm) 150, 743, 848, 904,
944, 1007, 1043, 1106, 1137,
1238, (1255), (1277)
- Celerio gallii
377
- Celerio lineata (white-lined
sphinx) 418, 461, 1030,
1084, 1269
- Celerio lineata livornica (a
sphingid) 75, 76
- Cenopalpus pulcher (a false spider
mite) 76
- Cenosoma signiferum (a tachina
fly) 288
- Cephenomyia sp. (a bot fly)
14
- Cephus cinctus (wheat stem sawfly)
135, (592), 850, 906, 1312,
1401
- Ceramica picta (zebra caterpillar)
233, 586, 828, 1015
- Cerataphis variabilis (a palm
aphid) 30, 117, 1334
- Ceratitidis capitata (Mediterranean
fruit fly) 28, 43, 55, 63,
70, 75, 76, 87, 97, 104, 208,
209, 260, 409, 431, 502, 551,
610, 710, 752, 788, 807, 857,
895, 970, 1011, 1049, 1064,
1078, 1132, 1133, 1143, 1250,
1265, 1340, 1362, 1422
- Ceratitidis colae
502
- Ceratitidis rosa (Natal fruit fly)
1132, 1133, 1134
- Ceratitidis rubivora
409
- Ceratonia catalpae (catalpa
sphinx) 350, 619, 654, 762,
924, 959, 994, 1054, 1151,
1244, 1334
- Ceratophyus spp. (scarabs)
18, 68, 184, 416
- Cerococcus spp. (coccids)
45, 374, 401, 561, 726
- Cerococcus hibisci
374
- Cerodontha dorsalis (an agromyzid
fly) 134
- Ceroplastes spp.
4, 65, 70, 117, 321, 373, 764,
1350
- Ceroplastes ceriferus
4, 65, 365, 586, 961, 1270,
1350, 1365, 1408
- Ceroplastes cirripediformis
(barnacle scale) 181, 284,
362, 926, 1000, 1085
- Ceroplastes floridensis (Florida
wax scale) 65, 88, 141, 209,
401, 527, 586, 764, 868, 961,
995, 1085, 1270, 1317, 1408
- Ceroplastes rusci (fig wax scale)
76, 77
- Cerotoma trifurcata (bean leaf
beetle) 165, 174, 230, 280,
462, 512, 521, 552, 575, 581,
638, 648, 670, 709, 715, 747,
818, 827, 853, 910, 947, 982,
986, 1011, 1046, 1076, 1109,
1112, 1141, (1163), 1175
- Ceuthophilus spp. (camel crickets)
306, 1354

- Ceuthophilus walkeri
1122
- Ceutorhynchus assimilis (cabbage seedpod weevil) 237, 282, 318, 474
- Ceutorhynchus rapae (cabbage curculio) 397, 715
- Chaetocnema spp.
482, 814, 1174
- Chaetocnema confinis (sweetpotato flea beetle) 521, 553, 648, 716
- Chaetocnema denticulata (toothed flea beetle) 814, 1043
- Chaetocnema ectypa (desert corn flea beetle) 152, 456, 482, 636
- Chaetocnema pulicaria (corn flea beetle) 152, 428, 456, 482, 512, 546, 577, 606, 636, 668, 744, 781, 814, 847, 906, 1174
- Chalcodermus aeneus (cowpea curculio) 231, 986, 1080, 1112, 1266
- Chalybion bengalense (a sphecid wasp) 536
- Chauliognathus pennsylvanicus (a soldier beetle) 306
- Cheiracanthium diversum (a clubionid spider) 1323
- Chelinidea tabulata (a predaceous coreid bug) 413
- Chelinidea vittiger vittiger
413
- Chelymophra cassidea (argus tortoise beetle) 860, 953
- Chermes spp.
722, 764, 1213
- Chermes abietis (eastern spruce gall aphid) 374, 464, 584, 722, 835, 865, 925, 992
- Chermes cooleyi (Cooley spruce gall aphid) 374, 434, 536, 557, 616, 684, 722, 865, 922, 933, 1424
- Chermes piceae (balsam woolly aphid) 254, 352, 412, 1149
- Chermes strobilobius
654
- Chilo sp. (a crambid)
895
- Chilo loftini
11, 1362
- Chilo suppressalis (Asiatic rice borer) 970, 1064, 1340
- Chilocorus stigma (twice-stabbed lady beetle) 411, 471, 498, 532, 557, 617, 693, 931
- Chionaspis fufura (scurfy scale)
362, 466, 686
- Chionaspis longiloba
354
- Chionaspis ortholobis
726, 868
- Chionaspis salicis-nigrae
655, 764
- Chironomus plumosus (a midge)
1027
- Chirothrips spp. (thrips)
746, 1047, 1177
- Chlamisus plicata (a leaf beetle)
860
- Chloriona kolophron (a delphacid planthopper) 290
- Chlorochroa sayi (Say stink bug)
269, 640, 786, 816, 849, 911, (974), 1273, 1401
- Chlorotettix spp. (leafhoppers)
1291
- Chnootriba similis (a lady beetle)
82
- Choristoneura sp.
687
- Choristoneura conflictana (large aspen tortrix) 340, 654, 723
- Choristoneura fumiferana (spruce budworm) 338, 339, 557, 832, 865, 922, 958, 1053, 1148, 1213, 1333
- Choristoneura obsoletana
243
- Choristoneura pinus (jack-pine budworm) 340, 652, 684, 721, 760, 796, 832, 1021
- Chorizagrotis spp.
103, 396
- Chorizagrotis auxiliaris (army cutworm) 27, 63, 87, 103, 130, 179, 215, 233, 241, 251, 279, 315, 318, 377, 391, 406, 427, (444), (445), 456, 480, (503), (504), (505), 512, 545, 568, 640, 736, 804, 876, 877, 911, 936, 938, 967, 968, (973), (974), 1033, (1035), (1038), 1091, 1092, (1099), 1160, 1161, 1190, 1191, (1192), 1221, 1222, 1251, (1256), (1257), 1303, 1321, 1339, 1401, 1412
- Chortinaspis subchortina (a coccid)
1311
- Chortophaga viridifasciata (green-striped grasshopper) 458, 541
- Chromaphis juglandicola (walnut aphid) 204, 764, 949, (1197)
- Chrotogonus trachypterus (a grasshopper) 73
- Chrysobothris spp.
(1198)
- Chrysobothris femorata (flatheaded apple tree borer) 193, 335
- Chrysobothris mali (Pacific flatheaded borer) 44, 202, 205, 1351, 1365
- Chrysolina spp. (Klamath-weed beetles) 565, 659
- Chrysolina gemellata
411
- Chrysolina quadrigemina
411
- Chrysomela crotchii (aspen leaf beetle) 723, 761, 1402
- Chrysomela scripta complex
(cottonwood leaf beetles) 337, 492, 585, 761, 923
- Chrysomphalus aonidum (Florida red scale) 75, 83, 88, 104, 209, 217, 365, 395, 396, 402, 436, 467, 486, 527, 645, 726, 736, 789, 799, 823, 915, 950, 961, 995, 1012, 1056, 1079, 1085, 1118, 1143, 1293, 1335, 1365
- Chrysomphalus dictyospermi (dictyospermum scale) 75, 76, 365, 1056, 1085
- Chrysomphalus obscurus (obscure scale) 29, 115, 318, 372, 395, 471, 560, 675, 688, 856, 868, 1184, 1298, 1350
- Chrysomphalus tenebriosus (gloomy scale) 868, 1055, 1246
- Chrysomya albiceps
23
- Chrysomya bezziana (Old World screw-worm) 23, 24
- Chrysomya chloropyga
23
- Chrysomya marginalis
23
- Chrysomya megacephala
23
- Chrysomya micropogon
23
- Chrysomya putoria
23
- Chrysomya rufifacies
23
- Chrysomya demandata (an otitid fly) 119, 362
- Chrysopa spp. (green lacewings)
287, 324, 369, 405, 414, 440, 565, 590, 624, 731, 1028, 1029, 1084, 1188, 1333, 1411
- Chrysopa carnea
413
- Chrysopa oculata (golden-eye lacewing) 287, 414, 440, 471, 498, 532, 565, 590, 624, 639, 659, 693, 839, 932
- Chrysops spp. (deer flies)
298, 402, 494, 530, 588, 657, 692, 729, 802, 837, 871, 929, 1056
- Chrysops atlanticus
298, 1246
- Chrysops fuliginosus
657
- Chrysops vittatus
297, 298
- Chrysops vittatus floridanus
298
- Cicadella sp. (a leafhopper)
1424
- Cimbex spp. (cimbicid sawflies)
365
- Cimbex americana (elm sawfly)
205, 350, 365, 686
- Cimbex rubida
365, 401
- Cimex lectularius (bed bug)
802, 1189, 1319, 1351, 1409
- Cimex pilosellus (a bat bug)
531
- Cinara spp. (conifer aphids)
141, 374, 435, 557, 1269, 1396
- Cinara carolina
93
- Cinara curvipes
141, 320, 353, 464, 616, 764, 1084
- Cinara laricis (larch aphid)
464, 492, 499
- Cinara longispinosa
105
- Cinara piceicola
353, 725
- Cinara ponderosae
141
- Cinara sibiricae
141
- Cinara strobii (white-pine aphid)
374, 584, 1183, 1269, 1316, 1350
- Cinara tujafilina
30, 88, 117, 219, 365, 435, 493, 799, 925, 1365, 1424
- Cingilia catenaria (chain-spotted geometer) 993, 1152
- Circulifer tenellus (beet leafhopper) 30, 64, 105, 116, 184, 228, 234, 282, 283, 363, 398, 432, (448), 462, 488, 520, 581, 612, 646, 679, 716, 736, 755, 859, 916, 951, 987, 1014, (1068), 1079, (1099), 1179, (1196), 1242, 1294, 1349, 1423
- Cirrospilus nigrivariegata
(a parasitic eulophid) 19
- Cispeps fulvicollis (a syntomid moth) 1159
- Citheronia regalis (hickory horned devil) 1061, 1240
- Clastoptera achatina (pecan spittlebug) 204, 486, 914
- Clastoptera arizonana
375
- Clavaspis herculeana (a diaspid scale insect) 1416
- Cleonus sp. (a weevil)
55, 77
- Cnephasia longana (omnivorous leaf tier) 554, 614, 649, 680
- Cnephaia pecuarum (southern buffalo gnat) 658
- Coccinella novemnotata (a lady beetle) 287, 532, 564, 589, 731, 931, 1158

Coccinella sanguinea see Cycloneda sanguinea

Coccinella undecimpunctata 77

Coccophagoides spp. (a parasitic eulophid) 180, 413

Coccus spp.

82, 373

Coccus acuminatus

209, 472, 486, 620, 799

Coccus acutissimus

789

Coccus elongatus

83, 823, 1350

Coccus hesperidum (brown soft scale)

14, 29, 65, 71, 75, 82, 209,

373, 486, 493, 527, 551, 620,

645, 799, 868, 984, 1056, 1184,

(1197), 1241, 1351

Coccus pseudomagnoliarum

(citricola scale) 209, 461,

749

Coccus viridis (green scale)

467, 868, 1335

Cochliomyia sp.

1246

Cochliomyia hominivorax (screw-

worm) 5, 15, 23, 24, 31, 45,

66, 89, 118, 142, 182, 220,

256, 286, 298, 299, 366, 403,

437, 468, 495, 529, 562, 588,

621, 657, 690, 728, 766, 801,

836, 870, 882, 927, 962, 996,

1026, 1059, 1086, 1119, 1155,

1185, 1189, 1217, 1246, 1247,

1271, 1299, 1318, 1336, 1353,

1367, 1379, 1397, 1409, 1425

Cochliomyia macellaria (secondary

screw-worm) 23, 24, 1246, 1299

Colaspis spp.

135, 174, 360, 670, 747, 785,

(810), 818, 819, 910, 947

Colaspis lata

512

Colaspis pini (pine colaspis)

338, 831

Coleomegilla maculata (a lady

beetle) 110, 369, 410

Coleomegilla maculata fuscilabris

287, 369, 405, 406, 411, 471,

498, 532, 564, 589, 623, 659,

693, 731, 769, 839, 931, 965,

1121, 1158, 1337

Coleomegilla vittigera

1121

Coleophora caryaefoliella (pecan

cigar casebearer) 550

Coleophora laricella (larch

casebearer) 341, 412, 474,

492, 557, 760, 1149

Coleophora limosipennella (elm

casebearer) 342, 565

Coleophora malivorella (pistol

casebearer) 549

Coleophora salmani (birch casebearer)

868

Colias eurytheme (alfalfa

caterpillar) 167, 361, 391,

427, 456, 480, 512, 546, 576,

604, 640, 672, 709, 749, 785,

819, 828, 853, 911, 946, 982,

1010, 1044, 1075, (1101), 1108,

1140, 1175, 1206, 1237, 1262,

1291, 1302, 1311, 1330, 1346,

1361, 1373

Colias philodice (clouded sulphur)

1089

Colladonus geminatus (a leafhopper)

985

Collops spp. (melyrid beetles)

412, 532, 624, 769, 873, 1029

Collops bipunctatus

838, 965

Collops quadrimaculatus

693, 731, 1121

Collops vittatus

931

Coloradia pandora (pandora moth)

342, 1021

Comperia merceti (a parasitic

encyrtid) 16

Comperiella bifasciata (a parasitic

encyrtid) 413

Compsus auricephalus (a weevil)

416, 431, 463, 533, 577, 583

Comstockiella sabalis (a coccid)

284, 365, 527, 726

Coninomos constrictus (a lathridiid

beetle) 629

Conoderus spp.

247, 489, 554, 736

Conoderus auritus

248

Conoderus falli (southern potato

wireworm) 226, 243, 247, 489,

522, 554, 951, 1211, 1294

Conoderus lividus

248, 392, 696, 1243, 1312

Conoderus vespertinus (tobacco

wireworm) 174, 243, 247, 463,

489, 522, 554, 606, 614, 649,

1179, 1243, 1267

Conophthorus coniperda (white-pine

cone beetle) 335

Conophthorus lambertianae (sugar-

pine cone beetle) 335

Conotelus mexicanus (a sap beetle)

401, 536, 1400

Conotrachelus sp.

204

Conotrachelus aguacatae

409

Conotrachelus aratus (a curculionid)

395, 486

Conotrachelus nenuphar (plum

curculio) 193, 200, 281, 317,

317, 362, 394, 459, 485, 516,

549, 556, 579, 609, 643, 673,

712, 733, 752, 822, 856, 949,

1012, 1048, 1209

Conotrachelus perseae (an avocado

seed weevil) 409

Contarinia spp.

347, 355

Contarinia constricta

355

Contarinia oregonensis

434

Contarinia pseudotsugae

14, 355, 1316

Contarinia sorghicola (sorghum

midge) 153, 850, 906, 945,

978, 1007, 1043, 1074, 1106,

1138, 1174, 1208, 1240, (1255),

1264, 1330

Contarinia vaccinii

207

Copris incertus (a scarab)

1093

Coptodisca spp. (shield bearers)

401, 1214

Coptodisca arbutiella

960

Coptotermes formosanus (a

subterranean termite) 698, 1416

Corcyr a sp. (a grain moth)

81

Corcyr a cephalonica (rice moth*)

629, 1233

Cordillacris crenulata crenulata

633

Cordillacris occipitalis

126, 483, 541, 902, 1205

Corimelaena sp. (a cydnid bug)

513, 522

Cornaphis populi (a crescent-gall

poplar aphid) 19

Corthylus columbianus (Columbian

timber beetle) 334

Corydalis cornutus (dobsonfly,

hellgrammite) 1000

Coryphista meadii (a geometrid moth)

961, 1216, 1376

Corythucha spp.

374, 526, 1246, 1297

Corythucha arcuata (oak lace bug)

354, 1084, 1297

Corythucha celtidis (hackberry

lace bug) 354

Corythucha ciliata (sycamore lace

bug) 354, 924, 1024, 1117,

1153, 1246

Corythucha cydoniae (hawthorn lace

bug) 1246

Corythucha marmorata (chrysanthemum

lace bug) 182, 860

Corythucha morrilli

535, 1223

Corythucha pruni

1297

Corythucha ulmi (elm lace bug)

354

Cosmobaris americana (a weevil)

234

Cossula magnifica (pecan carpenter-

worm) 203, 318, 610

Cotinis nitida (green June beetle)

169, 201, 206, 413, 433, 985,

1109

Cotinis texana

32, 202, 208, 913, 1426

Crambus spp. (webworms)

168, 169, 458, 548, 577, 667,

704, 736, 786, 851, 911, 983

1011, 1047, 1075, 1109, 1141

Crambus bonifatellus

1176

Crambus caliginosellus (corn root

webworm) 150, 635, 695

Crambus elegans

1188

Crambus luteolellus

851

Crambus topiarius (cranberry girdler)

169

Crambus trisectus

168

Cremaiogaster ashmeadi (an ant)

287

Crioceris spp.

398, 521, 648, 716, 755

Crioceris asparagi (asparagus

beetle) 19, 240, 398, 433,

462, 521, 553, 582, 613, 648,

679, 716, 755, 827, 917, 1080

Crioceris duodecimpunctata

(spotted asparagus beetle)

12, 240, 398, 521, 613, 648, 679,

716, 755, 860, 917, 987

Crociosema plebeiana (an

olethreutid moth) 1376

Croesus latitarsus (dusky birch

sawfly) 466

Crophius bohemani (a lygaeid bug)

868

Crossidius pulchellus (a cerambycid

beetle) 873, 965, 1030

Crymodes devastator (glassy cutworm)

1401

Cryptoblabes aliena (a phycitid

moth) 536

Cryptococcus fagi (beech scale)

354

Cryptolestes ferrugineus (rusty

Cryptophlebia spp. (olethreutid moths) 17, 93
Cryptophlebia leucotreta (false codling moth") 82
Cryptophlebia ombrodelta 290, 698
Cryptophyllaspis liquidambaris see Aspidiotus liquidambaris
Cryptotermes brevis (a powder-post termite) (1202)
Cryptotermes caviifrons 765
Ctenicera cylindriciformis 392
Ctenicera pruinina (Great Basin wireworm) 474, 1079
Ctenocephalides spp.
183, 300, 301, 730, 802, 838, 930, 964, 998, 1000, 1028, 1060, 1087, 1186, 1247, 1300, 1319, 1351
Ctenocephalides canis (dog flea) 1087, 1120, 1186, (1202), 1300
Ctenocephalides felis (cat flea) 300, 367, 531, 563, 658, 692, 930, 1060, 1087, 1186, (1202), 1300, 1410
Ctenopseustis obliquana (a tortricid moth) 970
Cucullia postera race omissa (a noctuid moth) 1189
Cucullococcus vaccinii (a mealybug) 418
Cuerna spp. (leafhoppers) 361, 457, 510
Cuerna costalis 133, 575, 980
Cuernavaca noxius (barley aphid") 69, 76, 1357
Culex spp. (mosquitoes) 74, 292, 293, 403, 469, 496, 871, 928, 995, 1025, 1056, 1298, 1351
Culex erraticus 292, 530, 1216
Culex nigripalpus 291
Culex pipiens 292, 469, 963, 995, 1025, 1270
Culex pipiens pipiens (northern house mosquito) 292, 496
Culex pipiens quinquefasciatus (southern house mosquito) 81, 291, 928, 1025, 1156, 1216
Culex restuans 291, 292, 293, 691, 765, 963, 1025, 1216
Culex salinarius 285, 291, 292, 322, 403, 1025, 1216, 1351, 1408
Culex tarsalis 293, 622, 691, 800, 836, 871, 928, 963, 996, 1025, 1119, 1156, 1216, 1270
Culex territans 292, 293, 622, 765, 963, 1025, 1216
Culicoides spp. (biting midges) 285, 299, 767
Culicoides blantonii 18
Culicoides milnei 81
Culicoides obsoletus 658
Culicoides pallidipennis 81
Culicoides variipennis 1057
Culiseta spp. (mosquitoes) 469

Culiseta inornata 117, 285, 291, 293, 403, 469, 530, 563, 587, 622, 691, 765, 1119, 1156, 1217, 1270, 1351, 1366
Culiseta moristans 469, 1217
Curculio baculi (an acorn weevil) 1184
Curculio caryae (pecan weevil) 12, 115, 204, 822, 985, 1013, 1048, 1078, 1209, 1264, 1292, 1313, 1331, 1348, 1374, 1394, 1422
Curculio nasicus 416
Cuterebra sp. (a bot fly) 297
Cyclocephala spp.
169, 1263
Cyclocephala borealis (northern masked chafer) 170, 428, 694, 731, 840
Cycloneda sp. (a lady beetle) 287
Cycloneda munda 110, 369
Cycloneda sanguinea 287, 532, 731, 1399
Cycloptilum trigonipalpus (a cricket) 800
Cylas formicarius 79
Cylas formicarius elegantulus (sweetpotato weevil) 12, 19, 64, 218, 242, 283, 368, 521, 756, 860, 1050, 1267, 1364, 1407, 1423
Cylindrocaptus adspersus 753
Cylindrocaptus eatoni 29, 337, 684
Cylindrocaptus furnissi (Douglas-fir twig weevil) 1021
Cynaues angustus (a tenebrionid beetle) 770
Cyrtopistomus castaneus (Asiatic oak weevil) 305, 654, 960, 1024, 1028, 1089, 1116, 1151, 1214
Cyrtomenus mirabilis (a burrowing bug) 817, 851
Cyrtopeltis notatus (suckfly) 988, 1081, 1114, 1145

D

Dactylopius indicus (a coccid) 1154
Dactynotus ambrosiae (an aphid) 84
Dactynotus cichorii 77
Dactynotus rudbeckiae 84, 1334
Dacus spp.
79, 502, 1064
Dacus cucurbitae (melon fly) 73, 260, 807, 1250
Dacus dorsalis (oriental fruit fly) 55, 97, 260, 409, 418, 807, 970, 1064, 1250, 1340
Dacus oleae (olive fruit fly) 70, 75, 76, 502
Danaus plexippus (monarch butterfly) 1089
Dasioops alveofrons (a loncheid fly) 200
Dasychira plagiata (pine tussock moth) 345, 464, 491, 557, 616, 721, 922, 958, 992, 1021

Dasymutilla occidentalis (a velvet ant) 418
Dasyneura spp.
713
Dasyneura gleditschiae (a gall midge) 379, 727, 762
Dasyneura mali 713
Dasyneura vaccinii 676, 713
Dasyscaphus parvipennis (a parasitic eulophid) 413
Dasystoma salicellum (oecophorid caterpillar) 1402
Datana spp.
797, 959, 1054, 1214, 1269
Datana contracta 797
Datana integerrima (walnut caterpillar) 203, 347, 797, 959, 1023, 1048, 1054, 1143, 1177
Datana major (azalea caterpillar) 377, 834, 1118, 1154
Datana ministra (yellow-necked caterpillar) 189, 347, 797, 1054, 1083, 1178, 1214
Datana perspicua 797, 959
Datana robusta 347
Deltoccephalus flavicosta (a leafhopper) 1291
Demodex canis (dog follicle mite) 1351
Dendrobella aspera (a false powder-post beetle) 311
Dendroctonus spp.
44, 760, 1022, 1213, 1268, 1269, 1295, 1375, 1395
Dendroctonus borealis (Alaska spruce beetle) 329, 344
Dendroctonus brevicomis (western pine beetle) 29, 44, 116, 219, 329, 364, 434, 683, (1200), 1268, 1295, 1315, 1375
Dendroctonus convexifrons (round-headed pine beetle) 329
Dendroctonus engelmanni (Engelmann spruce beetle) 329
Dendroctonus frontalis (southern pine beetle) 44, 140, 253, 330, 434, 524, 616, 736, 760, 796, 831, 865, 992, 1021, 1148, 1182, 1213, 1268, 1295, 1395
Dendroctonus jeffreyi (Jeffrey pine beetle) 330, (1200)
Dendroctonus monticolae (mountain pine beetle) 13, 330, 331, 434, 464, (1200), 1315, 1375
Dendroctonus ponderosae (Black Hills beetle) 331
Dendroctonus pseudotsugae (Douglas-fir beetle) 331, 332, 439, 652, 796, (1200), 1295
Dendroctonus terebrans (black turpentine beetle) 44, 140, 253, 332, 434, 524, 616, 721, 760, 831, 865, 922, 958, 1021, 1053, 1148, 1182, 1315, 1375, 1395
Dendroctonus valens (red turpentine beetle) 13, 44, 332, 1375
Dendrotettix quercus (a leaf-eating grasshopper) 559, 686, 994
Dendrothrips ornatus (privet thrips) 375, 689, 1025
Deraeocoris punctulatus (a plant bug) 73
Dermaecentor spp.
302, 404
Dermaecentor albipictus (winter tick) 67, 183, 302, 1059, 1319, 1366, 1398

- Dermacentor andersoni (Rocky Mountain wood tick) 302, 589
- Dermacentor nigrolineatus 1424
- Dermacentor occidentalis (Pacific Coast tick) 301
- Dermacentor variabilis (American dog tick) 301, 367, 404, 438, 469, 496, 531, 563, 589, 622, 658, 692, 732, 736, 768, 838, 930, 964, 1186, 1402, 1424
- Dermanyssus sp. 303
- Dermanyssus gallinae (chicken mite) 67, 303, 872, 930
- Dermatophagoides sp. (an epidermoptid mite) 1248
- Dermestes spp. 1230
- Dermestes ater (black larder beetle) 304, 629
- Dermestes caninus 1219
- Dermestes lardarius (larder beetle) 221, 304, 381, 469, 497, 658, 692, 694, 730, 732, 768, 803, 838, 1060, 1121, 1273, 1400, 1402, 1411
- Dermestes maculatus (hide beetle) 46, 286, 288, 381, 470, 998
- Dermestes peruvianus 19
- Derobrachus brevicollis (a cerambycid beetle) 170, 705, 1263
- Deroceras reticulatum (gray garden slug) 246, 380, 406
- Derocrepis erythropus (red-legged flea beetle) 549, 867
- Desmia funeralis (grape leaf folder) 206, 713, 914, 1013, 1111, 1265
- Diabrotica spp. 150, 175, 230, 282, 425, 704, 732, 744, 780, 814, 847, (1036), (1198), 1207, 1239, 1362
- Diabrotica balteata (banded cucumber beetle) 242, 282, 512, 521, 1046, 1050, 1175
- Diabrotica cristata 1301
- Diabrotica longicornis (northern corn rootworm) 150, 151, 152, 744, 780, 814, 847, 905, 942, 979, 1007, 1043, 1074, 1106, 1137, 1207, 1263, 1291, 1310, 1311, 1402
- Diabrotica undecimpunctata howardi (southern corn rootworm, spotted cucumber beetle) 3, 150, 152, 173, 234, 252, 282, 316, 425, (446), (447), 454, 512, 518, 545, 553, 635, 648, 667, 679, 704, 736, 744, 814, 826, 847, 917, 943, 1000, 1015, 1050, 1106, (1194), 1207, 1239, 1291, 1301, 1311, 1330, 1333, 1362, 1364, 1405
- Diabrotica undecimpunctata tenella 425, 512, 747, 785, 980, 1010, 1108, 1311, 1316, 1362, 1374
- Diabrotica undecimpunctata undecimpunctata (western spotted cucumber beetle) 230, 677, 732, 834, 1314
- Diabrotica virgifera (western corn rootworm) 150, 151, (446), (447), 635, 732, 744, 780, 814, 847, 880, 905, 942, 980, 1007, 1043, 1106, 1122, 1137, 1145, 1174, 1207, 1239, 1263, 1310, 1311
- Diacrisia sp. (a woollybear) 825
- Diaeretiella rapae (a parasitic braconid) 78
- Dialeurodes citri (citrus whitefly) 6, 16, 32, 73, 90, 119, 184, 222, 259, 288, 369, 375, 406, 418, 441, 472, 590, 625, 675, 695, 983, 1302, 1411
- Dialeurodes kirkaldyi 498, 620, 689
- Diaphania hylinata (melonworm) 239
- Diaphania indica (pumpkin caterpillar) 1301, 1338, 1411
- Diaphania nitidalis (pickleworm) 917
- Diaperomera femorata (walkingstick) 356, 686, 924, 994, 1117, 1215, 1245, 1274, 1297
- Diarsia rosaria (a noctuid moth) 244
- Diarthronomyia chrysanthemi (chrysanthemum gall midge) 467
- Diaspis sp. (a coccid) 70
- Diaspis boisduvalii 45, 65, 321, 372, 401, 527, 620, 926, 1056, 1366
- Diaspis bromeliae (pineapple scale) 961
- Diaspis carueli (juniper scale) 373, 436, 688, 799, 995, 1055
- Diaspis echinocacti (cactus scale) 45, 1408
- Diaspis liquidambaris see Aspidiotus liquidambaris
- Diatraea crambidoides (southern cornstalk borer) 148, 185, 703, 815, 1105, 1346
- Diatraea saccharalis (sugarcane borer) 27, 148, 279, 515, 634, 1043, 1173, 1237, 1311
- Dibrachoides druso (a parasitic pteromalid) 413
- Dibrachys cavus (a parasitic pteromalid) 1354
- Diceroprocta apache (a cicada) 992
- Dichaetoneura leucoptera (a parasitic tachina fly) 1354
- Dichelonyx crotchii (a scarab) 338
- Dichelonyx vicina 338
- Dichrocrocis punctiferalis (yellow peach moth) 895
- Dichomeris sp. 290
- Dichomeris ianthes 535
- Dichomeris marginella (juniper webworm) 284, 376, 442, 556, 1334
- Dictyla echii (a lace bug) 18
- Dicymolomia julianalis (a pyralid moth) 694
- Dikraneura carniola (a leafhopper) 317, 427, 478
- Dikrella cockerellii (a leafhopper) 363
- Dilophus spp. (March flies) 171
- Dilophus orbatus 607, 1061
- Dilophus strigilatus 1338
- Dinoderus minutus (bamboo powder-post beetle) 499
- Dinotrombidium magnificum (a trombidid mite) 1338
- Dioryctria sp. 349
- Dioryctria abietella 347, 1054
- Dioryctria zimmermani (Zimmerman pine moth) 349, 376, 652, 684, 721, 760, 796, 865, 1116, 1149
- Diparopsis watersi (a red bollworm) 80
- Diploiuulus latistriatus (a milliped) 1394
- Diprion similis (introduced pine sawfly) 351, 525, 684, 761, 832, 866, 959, 993, 1022, 1054, 1122, 1269
- Diptactis sacramentae (an eriophyid mite) 834
- Disholcaspis chrysolepidis 1245
- Disonychia alternata 559
- Disonychia limbicollis 1270
- Disonychia triangularis (three-spotted flea beetle) 853
- Disonychia xanthomelas (spinach flea beetle) 546
- Dissosteira carolina (Carolina grasshopper) 813, 846, 903, 941, 954
- Doclostaurus maroccanus (Moroccan locust) 69, 71, 73, 74
- Dolerus unicolor (a sawfly) 458
- Dolichurus stantoni (an ampulicid wasp) 1223
- Doru lineare (an earwig) 307
- Doryphorophaga doryphorae (a parasitic tachina fly) 714
- Draeculacephala spp. (leafhoppers) 418, 1096, 1291
- Drepanaphis acerifoliae (painted maple aphid) 353, 493, 654, 960, 1024
- Drepanaphis granovskyi 764, 1215
- Drepanaphis utahensis 764, 1215, 1245
- Drepanosiphum braggii (an aphid) 1215
- Drepanura knaba (a springtail) 1272
- Drosophila spp. (vinegar flies) 229, 499, 1078, (1162), 1210, 1273
- Drosophila melanogaster 206, 229, 1314
- Dryocoetes confusus (western balsam bark beetle) 334
- Dryocosmus palustris (a gall wasp) 350
- Dynastes tityus (a scarab) 1122
- Dysdercus spp. (pyrrhocorid bugs) 80
- Dysdercus nigrofasciatus 82, 83
- Dyslobus granicollis (a weevil) 582
- Dysmicoccus lasii (a coccid) 106
- Dyspessa ulula (a cossid moth) 55
- Earias biplaga 80
- Earias fabia 1064

Earias insulana (spiny bollworm°)
70, 72, 74, 75, 77, 80, 83, 1064
Ecdytolopha insiticiana (locust
twig borer) 348
Echidnophaga gallinacea (sticktight
flea) 19, 301
Epantheria deflorata (an arctiid
moth) 695
Ectomyelois ceratoniae (a phycitid
moth) 1381
Ectopsocus maindroni (a psocid)
1324
Edessa bifida (a stink bug)
19
Edwardsiana rosae (rose leafhopper)
436, 689, 1246
Elaphidion mucronatum
310
Elaphidion villosum (twig pruner)
335, 465, 797, 1245
Elasmopalpus lignosellus (lesser
cornstalk borer) 134, 147,
172, 227, 231, 605, 648, 672,
679, 703, 782, 789, 904, 944,
983, 1016, 1075, 1106, 1141,
1145, 1176, 1178, 1210, (1225),
1314
Eleodes spp. (false wireworms)
305, 815, 827
Eleodes suturalis (a darkling
beetle) 966, 1061
Empoasca spp.
71, 269, 427, 671, 683, 864,
920, 1053, 1215, 1314
Empoasca decedens
74
Empoasca decipiens
74
Empoasca devastans (Indian cotton
jassid°) 1325, 1326
Empoasca fabae (potato leafhopper)
159, 227, 228, 232, (274), 455,
462, 478, 510, 544, 581, 590,
639, 647, 671, 677, 708, 717,
733, 748, 754, 784, 790, 818,
827, 852, 860, 880, (893), 909,
915, 946, 953, 981, 986, 1009,
1016, 1045, 1076, 1080, 1096,
1108, 1112, 1140, (1166), 1175,
1262, 1311, 1330, 1361, 1373,
(1386)
Empoasca filamenta
228, 441, 1014, 1080
Empoasca kerri
1325
Empoasca kraemeri
518
Empoasca lybica (cotton jassid°)
75, 79
Empoasca maligna (apple leafhopper)
192, 609, 712, 985, 1142, 1209
Empoasca punjabensis
1325
Empoasca terraereginae
1325
Empria ignota (a strawberry sawfly)
614
Empria obscurata
649
Enchenopa binotata (two-marked
treehopper) 798
Endelomyia aethiops (rose-slug)
379, 467
Endothenia gentianaeana (a tortricid
moth) 970
Endria inimica (painted leafhopper)
160, 1291
Endrosis sarcitrella (white-
shouldered house moth) 107,
629, 630
Enicmus minutus (a lathridiid
beetle) 628

Ennomos subsignarius (elm spanworm)
188, 254, 343, 558, 833, 1183
Entomobrya assuta (a springtail)
143
Entomobrya unostrigata
229, 566, 1349
Entomoscelis americana (red turnip
beetle) 236
Eotetranychus spp. (spider mites)
753
Eotetranychus carpini
95
Eotetranychus lewisi
211, 753, 926
Eotetranychus libocedri
1185
Eotetranychus multidigituli
356, 1025
Eotetranychus sexmaculatus (six-
spotted mite) 3, 28, 139, 211,
217, 285, 318, 395, 396, 486,
494
Eotetranychus weldoni
1185, 1334
Eotetranychus willamettei
207, (1196), 1245
Eotetranychus yumensis (Yuma spider
mite) 116, 211, 551, 675, 753
Epargyreus clarus (silver-spotted
skipper) 1084
Ephestia spp. (phycitid moths)
6, 47, 222, 1232
Ephestia cautella see Cadra
cautella*
Ephestiodes gilvescentella (a phycitid
moth) 6, 383, 1381
Epicaerus spp. (weevils)
1064, 1250
Epicaerus cognatus
895, 970, 1064
Epicauta spp.
165, 226, 499, 512, 707, 746,
853, 880, 946, 953, 1046, 1108,
1175
Epicauta cinerea (clematis blister
beetle) 707
Epicauta fabricii (ash-gray blister
beetle) 165, 545, 687, 707,
715, 853
Epicauta maculata (spotted blister
beetle) 670
Epicauta normalis
916
Epicauta pennsylvanica (black
blister beetle) 152, 165, 417,
462, 946, 953, 982, 1010, 1046,
1049, 1055, 1079, 1108, 1175
Epicauta pestifera (margined blister
beetle) 165, 792, 853, 858,
946, 953, 961, 994, 1076, 1108,
1179
Epidiaspis pircicola (Italian pear
scale) 87, 436, (1197), 1396
Epiglaea apiata (a cranberry
blossomworm) 676
Epilachna borealis (squash beetle)
238, 755, 987, 1080
Epilachna chrysomelina (twelve-
spotted melon beetle°) 70, 72,
75, 77, 79, 807
Epilachna fulvosignata (a plant-
feeding lady beetle) 83
Epilachna varivestis (Mexican bean
beetle) 173, 230, (449), 521,
581, 613, 638, 647, 670, 677,
709, 715, 736, 747, 754, 792,
819, 826, 859, 880, 910, 916,
952, 982, 1011, 1016, (1038),
1046, 1049, 1080, 1109, 1112,
1140, 1144, (1163), 1207, (1226),
1243, 1263, 1266, 1314, 1346,
(1385), 1402

Epilachna vigintipunctata (a plant-
feeding lady beetle) 82
Epinotia acericiella (maple trumpet
skeletizer) 348
Epinotia nanana
19
Epinotia nisella creddeleana
797
Epinotia subviridis
365, 586
Epitrimerus pyri (pear rust mite)
196, 216, 579, 642, 674, 712,
913, (1196)
Epitrix spp.
225, 519, 551, 580, 830, 861,
1113
Epitrix brevis
19, 1154
Epitrix cucumeris (potato flea
beetle) 225, 488, 519, 552,
580, (597), 612, 646, 676, 696,
714, 733, 753, 791, 825, 847,
861, 916, 951, 986
Epitrix fuscata (eggplant flea
beetle) 1050
Epitrix hirtipennis (tobacco flea
beetle) 88, 116, 184, 225,
247, 252, 253, 319, 368, 433,
488, 554, 580, 582, 614, 648,
681, 718, 756, 793, 828, 861,
918, 954, 988, 1017, 1020, 1050,
1051, 1081, (1167), 1180, (1198)
Epitrix humeralis
19
Epitrix parvula
645
Epitrix subcrinita (western potato
flea beetle) 225, 234
Epitrix tuberis (tuber flea beetle)
225, 226, 714, 790, 861, 915,
951, 1014, (1067)
Epochra canadensis (currant fruit
fly) 207, 752, 823
Erannis tiliaria (linden looper)
343, 400, 491, 558, 609, 797,
867, 1152
Eriococcus azaleae (azalea bark
scale) 560, 688, 799, 1154,
1376
Eriococcus quercus
355
Eriophyes spp.
197, 356, 617, 798, 1117
Eriophyes emarginatae
356
Eriophyes laevis
1117
Eriophyes loewi
1274
Eriophyes pyri (pear leaf blister
mite) 196, 484, 518, 610,
820, 913, (1098), 1118, (1196),
1264
Eriophyes vitis (grape erineum mite)
75, 823
Eriosoma americanum (woolly elm
aphid) 353, 764
Eriosoma lanigerum (woolly apple
aphid) 192, 219, 317, 394,
430, 460, 466, 674, 712, 764,
799, 1077, 1110, 1292, 1312,
1331, 1374, 1424
Eristalis tenax (drone fly)
872, 998, 1030
Eritettix spp. (grasshoppers)
845
Eritettix simplex
483, 541, 665
Errastum ocellaris (a leafhopper)
160, 1096
Erynnis tristis (a skipper)
1411
Erythraspides vitis (grape sawfly)
752

*Walley, P.E.S.1960. Ent. Gaz. 11(4):
183-184.

- Erythroneura spp. (leafhoppers)
81, 206, 396, 733, 1078, 1178,
(1196)
- Erythroneura elegantula
1313
- Erythroneura lawsoniana
1331
- Erythroneura variabilis
363
- Erythroneura ziczac (Virginia-
creeper leafhopper) 375, 436,
1024
- Essigella knowltoni (an aphid)
19
- Essigella pini
925, 1149
- Estigmene acrea (salt-marsh
caterpillar) 165, 168, 227, 231,
265, 266, 376, 418, 458, 489,
547, 619, 682, 687, 758, 795,
830, 864, 876, 877, 881, 884,
919, 936, 947, 956, 967, 969,
987, 991, 1001, 1002, 1020,
1032, 1033, 1052, 1062, 1063,
1081, 1090, 1091, 1092, 1116,
1124, 1140, 1146, 1160, 1161,
1176, 1182, 1190, 1191, (1199),
1212, 1221, 1241, 1244, 1245,
1251, 1268, 1269, 1275, 1303,
1315, 1321, 1322, 1330, 1332,
1339, 1348, 1356, 1364, 1370,
1380, 1412
- Etiella zinckenella (lima-bean pod
borer) 81, 231, 1179
- Eublema brachygonia (a noctuid)
81
- Euborellia spp.
953, 1267
- Euborellia annulipes (ring-legged
earwig) 119, 143, 419, 1411
- Euborellia cincticollis
240, 1030
- Eucalymnatus tessellatus (a coccid)
65, 402, 528, 586, 689
- Eucelatoria armigera (a parasitic
tachina fly) 535
- Euceraphis gillettei (a birch aphid)
140, 654, 764
- Eucliptus rutilus (a weevil)
324
- Eucosma sp. (an olethreutid moth)
526
- Eucosma bobana
347
- Eucosma gloriola
687, 1149
- Eucosma sonomana
348
- Eutheola rugiceps (sugarcane beetle)
441, 482, 513, 546, 606, 706,
1029
- Eulachnus spp. (aphids)
1396, 1407
- Eulachnus rileyi
105, 725, 1220
- Euleia heraclei (celery fly^o)
97
- Eumenes fraternus (a vespid wasp)
1338
- Eumerus strigatus (onion bulb fly)
20, 240, 379, (1100)
- Euphoria inda (bumble flower
beetle) 725
- Euphoria kermi
614
- Euphoria sepulchralis
359, 1395
- Euphyllura arbuti
354
- Euphyllura olivina (olive psyllid^o)
71, 75
- Euprestina verticillata (an agaontid
wasp) 1323
- Eurukuttarus spp. (psychid moths)
731
- Eurydema ornatum (a stink bug)
82, 1250
- Eurygaster spp.
74
- Eurygaster integriceps (senn pest^o)
69, 71, 73
- Eurytetranychus buxi (a spider mite)
380
- Eurytoma incerta (a eurytomid gall
wasp) 243
- Eurytoma tylodermatis (a parasitic
eurytomid wasp) 1301
- Euschistus spp.
191, 200, 957, 983
- Euschistus conspersus
857, 914, 1210
- Euschistus impictiventris (western
brown stink bug) 269, 920,
1020, 1053, 1081
- Euschistus obscurus
228, 231
- Euschistus servus (brown stink bug)
173, 228, 231, 247, 391, 511,
577
- Euschistus variolarius (one-spot
stink bug) 427
- Euschongastia sp. (a chigger mite)
257
- Eutetranychus banksi (Texas citrus
mite) 3, 28, 104, 139, 211,
217, 395, 396, 486, 644, 645,
710, 788, 789, 800, 822, 823,
856, 857, 950, 1012, 1079, 1143,
1241, 1242, 1293, 1331, 1363,
1406, 1422
- Eutetranychus orientalis
81
- Euthyrhynchus floridanus (a preda-
ceous stink bug) 1219, 1301
- Eutrombicula spp. (chiggers)
768
- Eutrombicula alfreddugesi
622
- Euxoa sp.
396
- Euxoa messoria (dark-sided cutworm)
480, 1401
- Euxoa ochrogaster (red-backed
cutworm) 1401
- Euzophera ostricorella
493
- Euzophera semifuneralis (American
plum borer) 216, 281, 1177
- Evergestis forficalis
55, 1250
- Evergestis rimosalis (cross-striped
cabbageworm) 236
- Exitianus exitiosus (a leafhopper)
1291
- Exora pusilla (a leaf beetle)
82
- Exorista mella (a tachina fly)
1399
- Exoristobia philippinensis
(a parasitic encyrtid) 1324,
1381
- Exoteleia pinifoliella (pine
needle miner) 342
- F**
- Faronta diffusa (wheat head
armyworm) 134, 514, 605, 876,
877, 934, 935, 936, 967, 968,
1001, 1002, 1033, 1062, 1091,
1123, 1160, 1190, 1191, 1221,
1251, 1275, 1303, 1321, 1412
- Fascista cercerisella (a leaf roller
moth) 687, 925, 1023
- Feltia spp. (noctuid moths)
1089
- Feltia ducens
377, 1089
- Feltia herilis
1089
- Feltia subgothica (dingy cutworm)
150, 427, 667, 1159, 1220, 1249
- Feltia subterranea (granulate
cutworm) 47, 90, 108, 169,
172, 223, 259, 267, 289, 326,
370, 407, 443, 473, 501, 568,
591, 680, 819, 849, 876, 877,
884, 934, 936, 967, 968, 969,
983, 1001, 1002, 1032, 1033,
1046, 1062, 1063, 1090, 1091,
1092, 1123, 1124, 1160, 1161,
1190, 1191, 1206, 1221, 1251,
1252, 1266, 1275, 1303, 1321,
1322, 1333, 1339, 1356, 1370,
1380, 1394, 1412
- Penusa pusilla (birch leaf miner)
20, 351, 492, 526, 556, 559,
585, 618, 686, 696, 724, 762,
798, 834, 868, 1153
- Penusa ulmi (elm leaf miner)
352, 527, 618
- Ferrisia virgata (striped mealybug)
82, 181, 1408, 1424
- Fidia viticida (grape rootworm)
580, 713
- Fieberiella florii (a leafhopper)
108
- Fiorinia theae (tea scale)
45, 65, 106, 117, 141, 181,
220, 284, 321, 365, 372, 401,
402, 436, 467, 493, 527, 528,
561, 620, 689, 926, 961, 1246,
1270, 1317, 1350, 1365, 1408
- Fissuraspis ulmi (an armored scale)
656
- Forficula sp.
1218
- Forficula auricularia (European
earwig) 204, 307, 379, 586,
589, 625, 726, 732, 764, 770,
803, 861, 872, 931, 965, 998,
1000, 1030, 1059, 1080, 1186,
(1196)
- Forficula senegalensis
82
- Formica spp.
223, 441
- Formica exsectoides (Allegheny
mound ant) 566, 653, 966
- Formica fusca (silky ant)
1060
- Frankliniella spp.
269, 522, 583, 615, 650, 672,
683, 720, 746
- Frankliniella fusca (tobacco thrips)
248, 269, 490, 515, 522, 555,
917
- Frankliniella minuta
402
- Frankliniella occidentalis (western
flower thrips) 117, 202, 229,
239, 241, 242, 253, 269, 283,
375, 397, 402, 459, 467, 669,
689, 789, 917, 1011, 1020,
(1196), 1264, 1314
- Frankliniella tritici (flower
thrips) 269, 460, 515, 522,
528, 689, 755, 816
- Frankliniella vaccinii (blueberry
thrips) 207, 789
- Franklinothrips vespiformis
(a predaceous thrips) 873
- Fuscurogoda agitans (an earthworm
mite) 32, 108, 419, 441, 1159

G

Galasa nigrinodis (a chrysaugid moth) 377, 925, 1118, 1220
Galasa rubidana 1188
Galerucella xanthomelaena (elm leaf beetle) 20, 67, 72, 107, 119, 305, 320, 336, 400, 435, 439, 465, 474, 492, 526, 559, 563, 585, 618, 654, 685, 722, 736, 761, 796, 832, 866, 923, 960, 993, 1023, 1055, 1084, 1116, 1150, 1157, 1183, 1187, 1189, (1198), 1214, 1244, 1272, 1297, 1316, 1334, 1355, 1410
Galleria mellonella (greater wax moth) 288, 1220, 1399
Galumna spp. (oribatid mites) 258, 1122
Galumna nervosum 171
Gargaphia tiliae (basswood lace bug) 354
Gasterophilus intestinalis (horse bot fly) 1027, 1087, 1246, 1299
Gastrimargus brevipes (a grass-hopper) 502
Gastrophysa cyanea (a leaf beetle) 565
Geocoris spp. (big-eyed bugs) 414, 498, 532, 638, 693, 731, 769, 839, 873, 932, 965, 999, 1029, 1088
Geocoris decoratus 498, 533
Geocoris punctipes 110, 287, 369, 405, 414, 498, 532, 565, 624, 659, 693, 731, 839, 932, 1028, 1368
Geopinus incrassatus (a ground beetle) 472
Gibbium psyllioides (a spider beetle) 323, 629
Glaresis knausi (a scarab) 416
Glischrochilus spp. (sap beetles) 416, 660, 694, 840
Glischrochilus quadrisignatus 417, 847, 872, 906, 943, 1015, 1208
Glossina morsitans (a tsetse fly) 81
Glossina palpalis 81
Glossina tachinoides 81
Glycobius speciosus (sugar-maple borer) 1151
Glyptoscelis squamulata (a leaf beetle) 206
Gnathotrichus materiarius (a bark beetle) 306
Gnophothrips piniphilus (a thrips) 494, 652
Gnorimoschema sp. 1340
Gnorimoschema ocellatella (a sugar-beet crown borer) 75, 409, 895, 1250, 1314
Gnorimoschema operculella (potato tuberworm) 32, 76, 140, 227, 247, 363, 384, 552, 858, 1014, 1049, 1060, 1079, 1111, 1144, 1147, 1178, 1187, (1199), 1210, 1266, 1348, 1368, 1378, 1399, 1410, 1426
Gonaxis quadrilateralis (a carnivorous snail) 187

Gortyna flavago (a noctuid moth) 1250, 1340
Gossyparia spuria (European elm scale) 72, 354, 585, 618, 686, 724, 762, 799, 834, 868, 925, 995, 1215, 1245
Gracilaria azaleella (azalea leaf miner) 400, 559, 925, 1117
Gracilaria cuculipennella (privet leaf miner) 994
Gracilaria negundella (boxelder leaf roller) 724, 1054
Gracilaria syringella (lilac leaf miner) 619, 1117
Gracilaria vacciniella (a leaf blotch miner) 207
Grammodes geometrica (a noctuid moth) 81
Graphocephala spp. (leafhoppers) 800
Graphocephala versuta 947, 1291
Graphognathus spp. (white-fringed beetles) 16, 68, 223, 416, 440, 457, 522, 565, 575, 582, 590, 602, 624, 668, 694, 707, 731, 769, 848, 874, 910, 933, 1011, 1089, 1159, 1175, 1188, 1208, 1239, 1273, 1301, 1374, 1378, 1411, 1426
Graphognathus leucoloma imitator 20, 416, 1219
Graphognathus leucoloma pilosus 681
Graphognathus leucoloma striatus 416
Graphognathus peregrinus 1239
Grapholitha sp. 430
Grapholitha conversana (a clover bud caterpillar) 167
Grapholitha interstinctana (clover head caterpillar) 480
Grapholitha molesta (oriental fruit moth) 70, 115, 198, 199, 393, 430, 459, 485, 517, 549, 578, 608, 642, 673, 711, 750, 787, 821, 855, 985, 1047, 1077, 1142, 1147, 1177, (1199), 1209
Grapholitha packardii (cherry fruit-worm) 199, 611, 645, 675, 824
Grapholitha prunivora (lesser appleworm) 1077
Graphosoma semipunctata (a stink bug) 77
Graptostethus manillensis (a lygaeid bug) 1381
Gratiana pallidula (a tortoise beetle) 282
Gretchena bolliana (pecan bud moth) 395, 486
Gryllotalpa sp. 70
Gryllotalpa hexadactyla (northern mole cricket) 419, 561, 846, 861, 1028
Gryllus spp. (field crickets) 167, 269, 306, 846, 931, 957, 992, 998, 1017, 1028, 1046, 1087, 1121, 1157, (1196)
Gryllus bimaculatus 75
Gymnaspiis aechmeae (a coccid) 764
Gynaikothrips ficorum (Cuban-laurel thrips) 4, 375, 467, 1056, 1366, 1397, 1424

H

Hadrobregmus gibbicollis (an anobiid beetle) 998
Haematobia irritans (horn fly) 285, 295, 296, 322, 402, 438, 469, 494, 530, 561, 587, 621, 656, 691, 696, 728, 732, 736, 766, 802, 837, 871, 929, 963, 997, 1027, 1058, 1085, 1120, 1156, 1186, (1200), 1217, 1246, 1270, 1274, (1281), (1282), 1298, 1319, 1335, 1366
Haematopinus spp. 767, (1199)
Haematopinus eurysternus (short-nosed cattle louse) 94, 300, 367, 404, 536, 730, 736
Haematopinus quadripertus (cattle tail louse) 536
Haematopinus suis (hog louse) 14, 46, 67, 89, 119, 142, 183, 257, 285, 300, 1351, 1377, 1398, 1409
Haemolaelaps casalis (a laelaptid mite) 303
Haemolaelaps geomys 322
Halisidota argentata (silver-spotted tiger moth) 376, 434
Halisidota caryae (hickory tussock moth) 654
Halisidota harrisii (sycamore tussock moth) 1023
Halisidota tessellaris (pale tussock moth) 644
Halobates sericeus (a water strider) 186
Halticotoma valida (yucca plant bug) 925
Halticus sp. 83
Halticus bracteatus (garden flea-hopper) 640, 749, 917, 1015, 1046, 1175
Haplothrips tritici (a thrips) 73
Harmolita grandis (wheat straw-worm) 135
Harmolita hordei (barley joint-worm) 1402
Harmolita tritici (wheat joint-worm) 135, 744, (1383)
Harpalus spp. (ground beetles) 305, 933
Harpalus pennsylvanicus 1061
Harrisina americana (grape leaf skeletonizer) 206
Harrisina brillians (western grape leaf skeletonizer) 206, 461, 579, 611, 676, 823, 914, 949, 1111, 1265
Hartigia cressonii (a stem sawfly) 106, 1000
Hawailia minuscula (a snail) 1264
Hedulia injectiva (a pine seed moth) 347
Helicella maritima (a snail) 1249
Helicobia sp. (a flesh fly) 625
Heliothis spp. 11, 109, 110, 111, 246, 265, 463, 489, 555, 583, 615, 650, 681, 718, 736, 757, 794, 829, 862, 881, 955, 989, 1018, 1051, 1082, 1115, 1146, (1167), 1181, 1212, 1333, 1349, 1375

Heliothis armigera (Old World bollworm) 70, 72, 75, 77, 78, 79, 80, 81, 82
Heliothis peltigera 78, 80
Heliothis phloxiphaga form luteitinctus 624
Heliothis virescens (tobacco budworm) 11, 110, 112, 264, 265, 326, 370, 433, 443, 463, 472, 473, 480, 489, 501, 514, 534, 545, 554, 567, 568, 582, 591, 614, 615, 626, 627, 649, 650, 661, 662, 681, 687, 696, 697, 718, 734, 735, 756, 758, 771, 772, 793, 794, 805, 806, 841, 842, 861, 862, 876, 877, 884, 918, 919, 934, 935, 936, 955, 967, 968, 969, 990, 1001, 1002, 1032, 1033, 1051, 1061, 1062, 1063, 1081, 1082, 1091, 1105, 1123, 1124, 1160, 1161, 1181, 1183, 1190, 1191, 1221, 1251, 1252, (1257), 1269, 1275, 1303, 1321, 1332, 1333, 1349, 1356, 1375, 1380, 1408, 1412
Heliothis zea (bollworm, corn earworm, tomato fruitworm) 11, (48), (52), 75, 92, 109, 110, 111, 112, 148, 149, 165, 166, 168, 172, 226, 231, 236, 241, 252, 259, 264, 265, 269, (272), 289, 315, 326, 359, 363, 370, 391, 399, 433, 441, 443, (446), (447), 455, 472, 473, 480, 501, 514, 520, 523, 534, 545, 553, 567, 568, 576, 581, 591, 605, 612, 615, 626, 627, 635, 650, 655, 661, 662, 667, 681, 696, 697, 704, 718, 734, 735, 736, 742, 758, 771, 772, 781, 791, 794, 795, 805, 806, (809), 815, 827, 830, 841, 842, 849, 854, 858, 862, 863, 876, 877, 884, (894), 904, 919, 934, 935, 936, 937, 938, 943, 944, 947, 955, 967, 968, 969, 978, 990, 1000, 1001, 1002, 1005, 1010, 1014, 1019, 1028, 1030, 1032, 1033, 1034, (1036), 1041, 1050, 1052, 1061, 1062, 1063, 1073, 1079, 1082, 1090, 1091, 1092, (1102), 1105, 1106, 1112, 1115, 1123, 1124, 1145, 1146, 1160, 1161, (1163), (1164), (1193), (1198), 1205, 1210, 1211, 1212, 1216, 1221, 1222, (1224), (1225), 1237, 1243, 1251, 1252, (1253), (1255), (1257), 1262, 1266, 1267, 1274, 1275, 1276, (1277), (1279), (1280), 1291, 1294, 1301, 1303, 1311, 1315, 1321, 1322, 1330, 1332, 1333, 1338, 1339, 1348, 1349, 1356, 1364, 1370, 1375, 1380, (1388), 1394, 1395, 1407, 1412, 1423
Heliothrips sp. 1335
Heliothrips haemorrhoidalis (green-house thrips) 93, 207, 494, 1013
Helix aspersa (brown garden snail) 285
Hellula rogatalis (cabbage webworm) 581, 1122
Hellula undalis 72
Helopeltis sp. (a plant bug) 80
Hemadas nubilipennis (a chalcid) 914
Hemerocampa leucostigma (white-marked tussock moth) 346, 833, 1122

Hemerocampa pseudotsugata (Douglas-fir tussock moth) 346, 865, 922, 992, 1315
Hemerocampa vetusta (western tussock moth) 189, 198
Hemileuca maia (buck moth) 284, 349, 435, 526
Hemileuca nevadensis 350
Hemileuca oliviae (range caterpillar) 169, 911, 1075, 1141
Hendecaneura shawiana (a blueberry tip borer) 207, 611
Hercinothrips sp. 83
Hercinothrips femoralis (banded greenhouse thrips) 235
Hercotothrips fasciatus (bean thrips) 860, 873, 1351
Hercotothrips fumipennis 80
Hercotothrips phaseoli 269
Herculia phaezalis (a pyralid moth) 1397
Hermetia illucens (a soldier fly) 419, 1273, 1320
Herse convolvuli (a sphingid moth) 77
Hesperotettix speciosus (a grasshopper) 665
Heterocampa guttivitta (saddled prominent) 347, 1244
Heterocampa manteo (variable oak leaf caterpillar) 833, 959, 1117, 1152, 1183, 1214, 1244, 1297
Heterochelus sp. (a scarab) 895
Heterococcus graminicola (a mealybug) 705
Heterodera avenae (oat cyst nematode) 1340
Heterodera glycines (soybean cyst nematode) 174, 1047, 1077, 1141, 1264
Heterodera rostochiensis (golden nematode) 55, 97, 261, 1340, 1418
Hexagenia bilineata (a mayfly) 732
Hexarthrum ulkei (a weevil) 497
Hexeris enhydris (a seagrape borer) 1408
Hippelates spp. (eye gnats) 300, 563, 872, 1027
Hippelates collusor 300, 1351
Hippobosca longipennis (a louse fly) 74
Hippodamia spp. 287, 410, 498, 532, 589, 623, 659, 731, 769, 803, 839, 965, 1219
Hippodamia convergens (convergent lady beetle) 110, 287, 324, 369, 410, 471, 498, 523, 532, 533, 564, 585, 589, 590, 623, 659, 693, 731, 769, 839, 931, 965, 1121, 1158, 1188, 1219, 1301, 1329, 1337, 1399, 1407
Hippodamia tredecimpunctata 440
Hippodamia tredecimpunctata tibialis (thirteen-spotted lady beetle) 411, 471
Hockeria unicolor (a chalcid) 77
Hofmannophila pseudospretella (brown house moth) 830, 659
Holococera iceryaeella (a blastobasid moth) 211, 1407

Homadula albizziae (mimosa webworm) 20, 375, 376, 406, 586, 619, 687, 725, 763, 798, 834, 869, 924, 960, 994, 1024, 1055, 1084, 1117, 1154, 1215, 1297
Homaledra sabalella (palm leaf skeletonizer) 492
Homalodisca spp. (leafhoppers) 753
Homalodisca coagulata 210, 418, 1111
Homalodisca insolita 1313, 1362
Homalodisca liturata 1347
Homalodisca triquetra see Homalodisca coagulata
Homoeosoma electellum (sunflower moth) 175, 764, 1011, 1238, 1331
Homonocnemis fortis (a noctuid moth) 347
Hoplia spp. (Scarabs) 378, 528, 624
Hoplia oregona 611, 725
Hoplocampa testudinea (European apple sawfly) 194, 486, 550, 609, 713
Horistonotus uhlerii (sand wireworm) 135, 152, 482
Horogenes sp. (an ichneumon) 428
Horogenes punctorius 1029, 1378
Howardia biclavus (mining scale) 181, 689
Hulstia undulata (sugar-beet crown borer) 233
Hyadaphis coriandri 77
Hyadaphis pseudobrassicae (turnip aphid) 30, 76, 84, 237, 1266, 1349, 1375, 1407
Hyalomma impeltatum (an ixodid tick) 77
Hyalopteris atriplicis 227
Hyalopteris pruni (mealy plum aphid) 199, 712, 948, (1197), 1357
Hybomitra sp. (a horse fly) 929
Hybomitra lasiophthalma 530
Hybomitra rhombica 929
Hydrellia griseola (a leaf miner fly) 134, 706, (1198)
Hydriomena nubilofasciata (a geometrid moth) 116, 219
Hydroecia micacea (potato stem borer) 1402
Hydrophilus triangulularis (a water scavenger beetle) 472
Hylastes ruber (a bark beetle) 13
Hylastinus obscurus (clover root borer) 165, (274), 480, 512, (1386)
Hylemya spp. 533, 613, 1402
Hylemya antiqua (onion maggot) 240, 433, 488, 553, 613, 648, 679, 716, 755, 792, 827, 859, 917, (1100), 1145, 1179, (1198), 1211, (1254), 1332
Hylemya brassicae (cabbage maggot) 238, 432, 462, 488, 519, 552, 581, 613, 647, 678, 715, 755, 791, 826, 952, (1065), (1198), (1253), 1402

Hylemya cerealis
578, 637
Hylemya cilicrura see Hylemya
platura
Hylemya echinata (carnation tip
maggot) 869
Hylemya floralis (turnip maggot)
175, 237
Hylemya florilega
1402
Hylemya liturata see Hylemya
florilega
Hylemya platura (seed-corn maggot)
28, 232, 237, 248, (271), 533,
552, 556, 604, 625, 637, 647,
678, 695, 706, (1385), (1387)
Hylephila phylaeus (a fiery skipper)
983, 1206, 1263
Hylobius pales (pales weevil)
219, 254, 337, 400, 524, 556, 560,
616, 652, 725, 831, 958, 1148,
1213
Hylobius radicis (pine root collar
weevil) 337, 492, 560, 725,
831, 1148
Hylotrupes bajulus (old-house borer)
67, 90, 258, 310, 531, 693, 730,
768, 1378
Hylurgopinus rufipes (native elm
bark beetle) 20, 335, 465
Hymenarcys nervosa (a stink bug)
511
Hypera spp.
72, 115, 179, 670
Hypera brunneipennis
16, 32, 72, 115, 164, 179, 215,
252, 305, 479
Hypera meles (clover head weevil)
164, 280, 360, 389, 425, 479,
511, 638, 670
Hypera nigrirostris (lesser clover
leaf weevil) 164, (274), 280,
360, 389, 425, 441, 453, 479,
511, 542, 575, 602, 638, 670,
1095, (1386)
Hypera postica (alfalfa weevil)
20, 27, 43, 69, 71, 72, 103,
139, 158, 161, 162, 163, 179,
215, 251, (274), 280, 316, 360,
389, 408, 413, 425, 442, (444),
(445), 453, 474, 478, 499, 511,
536, 541, 575, 601, 627, 637,
706, 732, 733, 736, 746, 749,
785, 818, 835, 910, 946, (973),
982, 1009, 1045, 1076, 1095,
1108, 1140, (1166), 1175, (1197),
1207, 1239, 1263, 1304, 1346,
1362, 1374, (1386), 1417
Hypera punctata (clover leaf weevil)
103, 115, 164, 251, (274), 316,
360, 389, 425, 453, 479, 511,
536, 542, 575, 625, 638, 670,
(886), 1095, (1198), 1263, 1291,
1330, (1386)
Hyperaspis signata
532
Hyperaspis trilineata (a coccinellid
beetle) 186
Hyperodes texana (a weevil)
1332
Hyphantria sp.
1297
Hyphantria cunea (fall webworm)
203, 341, 461, 486, 526, 550
584, 610, 653, 675, 685, 723,
736, 752, 762, 789, 797, 833,
856, 867, 914, 923, 949, 959,
985, 993, 1022, 1048, 1054,
1077, 1083, 1110, 1142, 1151,
1214, 1218, 1244, 1296, 1334,
1350

Hypoderma spp. (cattle grubs)
107, 117, 141, 183, 220, 285,
366, 402, 494, 530, 621, 657,
691, 729, 767, 802, 838, 1271,
1336, 1353, 1367, 1398
Hypoderma bovis (northern cattle
grub) 94, 117, 256, 285, 297,
621, 736
Hypoderma lineatum (common cattle
grub) 5, 14, 31, 46, 67, 89,
106, 117, 141, 183, 220, 256,
297, 322, 402, 469, 736, 767,
(1200), 1409, 1424
Hypogastrura armata (a springtail)
732
Hypogastrura pseudarmatus
90
Hypodeocoris imperialis (a big-
eyed bug) 932
Hyponomeuta sp.
70
Hyponomeuta padella (ermine moth)
73
Hyssopus thymus (a parasitic
eulophid) 721
Hysteroneura setariae (rusty plum
aphid) 30, 93, 154, 199, 457,
460, 487, 1362

Icerya purchasi (cottony-cushion
scale) 4, 12, 45, 75, 77, 82,
116, 117, 210, 252, 255, 284,
373, 401, 440, 460, 498, 551,
688, 726, 764, 925, 926, 961,
1184, 1241
Ichthyura inclusa (poplar tent
maker) 347
Idiostatus spp. (longhorn
grasshoppers) 846, 903, 942
Idona minuenda (a leafhopper)
362, 752
Ilacora stalii (a plant bug)
161
Incisitermes minor (western
drywood termite) 119, 533,
1087, 1219
Incisitermes repandus
1064
Incisitermes snyderi
107
Ipochnus fasciatus (a cerambycid
beetle) 526
Ips spp. (engraver beetles)
13, 44, 116, 254, 283, 332,
333, 434, 524, 616, 683, 721,
760, 831, 958, 1021, 1022, 1053,
1148, 1183, 1213, 1268, 1295,
1376, 1395
Ips avulsus
283, 333, 616, 831, 865, 1021,
1053, 1148, 1183, 1268, 1295
Ips calligraphus
283, 333, 524, 616, 865, 1021,
1148, 1244
Ips confusus (California five-
spined ips) 333, 683, 831,
(1200)
Ips grandicollis
283, 616, 831, 865, 1021, 1053,
1148, 1395
Ips integer
13
Ips lecontei
333
Ips montanus
13
Ips oregonis
332, 333, 652, 865, (1200)
Ips pini (pine engraver)
333, 721, 1148

Ips ponderosae
13, 333
Irbisia sp. (a plant bug)
576
Irbisia brachycerus
607
Iridomyrmex humilis (Argentine ant)
308, (1202)
Iridothrips iridis (iris thrips)
689
Ischnaspis longirostris (black
thread scale) 45, 726, 1056
Isia isabella (banded woollybear)
1320
Itonida spp. (gall midges)
618
Ixodes cookei
302
Ixodes pacificus
301
Ixodes scapularis (black-legged
tick) 90, 302, 1424

Janus integer (currant stem girdler)
713
Junonia coenia see Junonia
evarete coenia
Junonia evarete coenia (a butterfly)
944, 1089

Kaloterms spp. (drywood termites)
(1202)
Kaloterms approximatus
47, 106
Kaloterms snyderi see Incisitermes
snyderi
Keiferia lycopersicella (tomato
pinworm) 12, 227, 462, 646,
754, 1112, 1144, (1199), 1210
Kermes spp. (oak kermes scales)
354, 798, 1298
Kermes pubescens
618, 686
Knemidokoptes mutans (scaly-leg
mite) 404
Kolla bifida see Tylozygus
bifidus
Kuwanaspis sp.
1323
Kuwanaspis pseudoleucaspis
(a bamboo scale) 88, 1323

Labia minor (an earwig)
660
Labidura riparia (an earwig)
307, 1186, 1218, 1248, 1249,
1272, 1333, 1338, 1349, 1354
Labops hesperius (a mirid)
20, 170, 576, 636
Lachnus sp. (an aphid)
219
Lachnus salignus
30, 117, 353, 527, 560, 654,
835, 1084, 1118, 1154, 1334,
1335, 1350, 1407
Lacinipolia renigera (bristly
cutworm) 427, 455
Laelaps multispinosus (a laelaptid
mite) 367
Lambdina athasaria pellucidaria
(a pine looper) 344, 1149

- Lambdina fiscellaria lugubrosa
(western hemlock looper) 344
- Lambdina fiscellaria somnaria
(western oak looper) 344, 959, 1023
- Lampides boeticus (bean butterfly) 502
- Languria mozzardi (clover stem borer) 480, 543
- Laphygma frugiperda (fall armyworm) 27, 43, 105, 134, 143, 148, 168, 172, 223, 259, 326, 359, 370, 391, 407, 473, 482, 501, 534, 547, 577, 605, 627, 697, 736, 743, 782, (810), 816, 876, 877, 884, 904, 934, 935, 936, 943, 947, 967, 968, 969, 978, 1000, 1001, 1002, 1006, 1032, 1033, (1036), (1037), 1041, 1062, 1063, 1073, 1090, 1091, 1106, 1113, 1123, 1124, 1137, 1160, 1161, (1164), 1173, 1190, 1191, 1205, 1221, (1226), 1237, 1251, 1252, (1256), 1263, 1274, 1275, (1277), 1291, 1302, 1303, 1321, 1322, 1330, 1339, 1346, 1356, 1361, 1364, 1370, 1375, 1380, 1394, 1412
- Largus cinctus californicus
(a pyrrhocorid bug) 153, 1178
- Largus convivus
200, 206
- Laricobius erichsoni (a predaceous derodontid beetle) 412
- Lasioderma serricorne (cigarette beetle) 46, 108, 183, 221, 306, 382, 383, 629, 659, 731, 838, 1088, 1158, 1219, 1228, 1248, 1272, 1337, 1410
- Lasius alienus (cornfield ant) 483
- Laspeyresia spp.
347
- Laspeyresia caryana (hickory shuckworm) 140, 203, 526, 725, 914, 1013, 1078, 1143, 1177, 1240, 1292, 1331, 1374, 1406, 1422
- Laspeyresia nigricana (pea moth) 231
- Laspeyresia piperana
1268
- Laspeyresia strobilella
1418
- Latheticus oryzae (a darkling beetle) 382, 630, 1188, 1228, 1229, 1230, 1232
- Latrodectus curacaviensis
1402
- Latrodectus mactans (black widow spider) 303, 1187, (1202), 1272
- Lebia analis (a ground beetle) 411
- Lecanium spp. (soft scales) 317, 354, 373, 401, 726, 764, 1184, 1246
- Lecanium caryae
354
- Lecanium cerasorum (calico scale) 401
- Lecanium corni (European fruit lecanium) 200, 354, 400, 435, 560, 655, 695, 726, 751, 764, 925, (1197)
- Lecanium excrescens
373, 799
- Lecanium fletcheri (Fletcher scale) 20, 373, 560, 620, 688, 695, 726, 764, 799, 835, 926, 995, 1154
- Lecanium kunoensis
192, 373
- Lecanium nigrofasciatum (terrapiin scale) 643
- Lecanium pruinorum
204
- Lecanium prunastris (globose scale) 713, 855
- Lecanium unifasciatum
73
- Leiodinychus krameri (a urodinychid) 419
- Lema bilineata (a leaf beetle) 970
- Lema brunnicollis
774
- Lema collaris
774
- Lema cornuta
774
- Lema longipennis
774
- Lema sayi
774
- Lema simulans
774
- Lema texana
774
- Lema trilineata (three-lined potato beetle) 714, 725, 858, 961, 1118, 1144
- Lepidosaphes beckii (purple scale) 71, 104, 210, 217, 395, 396, 486, 644, 710, 788, 856, 915, 950, 1012, 1079, 1143, 1241, 1242, 1293, 1331, 1363, 1406, 1422
- Lepidosaphes camelliae (camellia scale) 372, 689, 835, 961, 1365
- Lepidosaphes ficus (fig scale) 1406
- Lepidosaphes gloverii (Glover scale) 75, 104, 210, 217, 321, 395, 396, 486, 644, 645, 710, 788, 823, 856, 950, 1012, 1079, 1143, 1241, 1242, 1293, 1331, 1363, 1406, 1422
- Lepidosaphes maskelli
799, 875
- Lepidosaphes pistaciae
72
- Lepidosaphes pistacicola
72
- Lepidosaphes tapleyi
79
- Lepidosaphes ulmi (oystershell scale) 71, 192, 219, 321, 355, 371, 372, 466, 492, 500, 527, 549, 559, 609, 620, 655, 674, 688, 696, 726, 799, 868, 925, 1055, 1142, 1216
- Lepidosaphes yanagicola
20, 95, 372, 474, 527, 762, 764, 1154
- Lepisma saccharina (silverfish) 46, 556, 589, 623
- Leptinotarsa decemlineata (Colorado potato beetle) 224, 225, 305, 363, 432, (450), 462, 488, 519, 552, 580, (597), 612, 646, 676, 714, 736, 753, 791, 825, 858, 915, 950, 986, 1014, 1049, 1079, 1112, 1157
- Leptoconops torrens (a biting midge) 658
- Leptocoris spp.
222, 1245
- Leptocoris rubrolineatus
191, 200, 204, 222, 307, 499, 995, 1272, 1363
- Leptocoris trivittatus (boxelder bug) 46, 68, 90, 107, 119, 222, 257, 287, 307, 323, 368, 736, 764, 994, 1028, 1087, 1121, 1157, 1187, 1218, 1248, 1272, 1300, 1319, 1354, 1398, 1410
- Leptoglossus oppositus
1145
- Leptoglossus phyllopus (leaf-footed bug) 228, 231, 522, 550, 676, 678, 753, 754, 1106
- Leptoglossus zonatus
1154, 1178, 1362, 1394
- Leptopterna dolabratus (meadow plant bug) 161, 428, 482, 513, 545, 574, 640, 1095
- Leptothrips mali (a predaceous thrips) 839
- Leptopypha minor (an ash lace bug) 354
- Leptopypha mutica
924
- Lethocerus americanus (giant water bug) 499
- Leucaspis japonica (a coccid) 20, 365, 372, 1351
- Leucaspis portaeureae
1216
- Leucinodes orbonalis (eggplant fruit borer) 83, 895
- Leucopoma doherthyi (a leaf skeletonizer) 81
- Leucoptera sp. (a Lyonetiid moth) 81, 83
- Leucoptera spartifoliella
413
- Leucothrips piercei (a thrips) 1020, 1083, 1212, 1243
- Limax flavus (tawny garden slug) 727
- Limax maximus (spotted garden slug) 1093
- Limonium spp.
135, 425, 457, 520, 552, 717, 736
- Limonium canus (Pacific Coast wireworm) 432, 520
- Limonium dubitans
744
- Limothrips cerealium (grain thrips) 692
- Limothrips denticornis
135, 637, 669, 706, 850, 1401
- Lineodes integra (a pyraustid moth) 1348
- Linognathus spp.
767, (1199)
- Linognathus vituli (long-nosed cattle louse) 32, 46, 107, 142, 183, 300, 322, 1409
- Liorhyssus hyalinus (a coreid bug) 1262
- Liosomaphis berberidis (an aphid) 869, 1316
- Liothrips illex (a thrips) 835
- Liposcelis spp. (booklice) 308, 419
- Liriomyza spp. (leaf miner flies) 229, 232, 239, 245, 397, 715, 736, 986, 1179, 1211, 1240, 1243, 1267, 1294, 1314, 1332, 1349, 1364
- Liriomyza langei (pea leaf miner) 727
- Liriomyza munda
1112, 1407
- Liriomyza pictella
1349
- Lissorhoptrus oryzophilus (rice water weevil) 135, 513, (810)
- Listroderes costirostris obliquus (vegetable weevil) 106, 116, 139, 140, 184, 248, 253, 259, 319, 369, 406, 441, 554, 614, 918
- Listronotus oregonensis (carrot weevil) 20, 827, 917
- Lithocolletis biancardella (a leaf blotch miner) 188

Lithocolletis crataegella
188, 875, 985
Lithophane antennata (green
fruitworm) 188, 517, 556, 608
Lixus sp.
502
Lixus concavus (rhubarb curculio)
554, 613, 679
Lixus junci
75
Lobesia botrana (vine moth)
70
Lobiopa insularis (a sap beetle)
521
Locris sp. (a spittlebug)
82
Locusta migratoria (a migratory
locust) 69
Locusta migratoria migratorioides
78
Longistigma caryae (giant bark
aphid) 461, 465, 1111, 1118,
1316, 1365
Longitarsus waterhousei (a mint
flea beetle) 917, 953
Lopidea confluenta
662
Lopidea davisi (phlox plant bug)
1085
Loxagrotis albicosta (western bean
cutworm) 150, 905, 999, 1106,
1137, 1145
Loxosceles reclusa (a brown spider)
32, 46, 303, 323, 496, 692,
768, 930, 1319, 1336, 1351,
1377, 1410
Loxostege spp.
167, 709, 749, 853, 947, 982,
1044, 1109, 1154
Loxostege commixtalis (alfalfa
webworm) 167, 819, 910,
1032, 1044, 1123, 1160, 1321,
1412
Loxostege similalis (garden
webworm) 167, 173, 267, 443,
473, 483, 489, 501, 534, 546,
568, 576, 591, 604, 641, 672,
679, 709, 719, 749, 758, 795,
819, 853, 881, 910, 920, 947,
956, 1062, 1075, 1080, 1116,
1123, 1140, 1160, 1161, 1176,
1206, 1212, 1242, 1274, 1311,
1321, 1330, 1356, 1412
Loxostege sticticalis (beet
webworm) 233, (498), 534,
(594), 612, 646, 678, 715,
755, 785, 792, 819, 827, 854,
859, 877, 916, 936, 952, 968,
1002, 1015, 1033, (1066),
1080, (1099), 1123, 1124, 1160,
1191, 1238, 1321, 1412
Lucilia illustris (a calliphorid
fly) 930
Luperodes brunneus (corn silk
beetle) 847
Luperodes exclamationis
82
Lycius spp. (powder-post beetles)
258, 310, 964
Lycius africanus
255, 1028
Lycius brunneus
83, 287, 565, 964
Lycius cavicollis
404, 769
Lycius linearis
531
Lycius planicollis (southern
lyctus beetle) 310, 323
Lydella griseescens (a parasitic
tachina fly) 1029, 1337
Lygaeus kalmii (a lygaeid bug)
401, 499, 533, 566

Lygaeus lateralis
589
Lygocoris belfragei
20
Lygocoris caryae (hickory plant
bug) 191, 200, 643
Lygocoris omnivagus
200
Lygocoris quercalbae
200
Lygus spp. (lygus bugs)
153, 160, 168, 175, 223, 231,
234, 268, 281, 394, 426, 455,
463, 478, 490, 499, 510, 536,
544, 545, 555, 574, 582, 603,
615, 640, 651, 671, 682, 708,
717, 719, 736, 748, 758, 784,
795, 817, 828, 830, 852, 859,
863, 880, 882, 909, 916, 920,
953, 956, 964, 981, 982, 992,
1009, 1016, 1020, 1045, 1052,
1076, 1081, 1083, 1107, 1116,
1138, 1147, 1175, 1182, (1197),
1207, 1239, 1261, 1262, 1345,
1405
Lygus elisus
160, 281, 544, 603, 640, 671,
828, 859, 880, 982, 1009, 1016,
1076
Lygus gemellatus
73
Lygus hesperus
160, 478, 544, 582, 640, 859,
982, 1009
Lygus lineolaris (tarnished plant
bug) 160, 161, 191, 200, 228,
239, 242, 268, 317, 361, 390,
394, 426, 455, 460, 478, 510,
518, 522, 545, 550, 556, 574,
603, 604, 609, 611, 640, 649,
651, 671, 682, 708, 719, 748,
751, 758, 784, 790, 795, 817,
828, 830, 852, 859, 917, 948,
981, 982, 1009, 1045, 1095,
1108, 1138, 1175, 1207, 1216,
1239, 1261, 1289, 1309, 1317,
1329, 1332, 1334, 1361, 1373,
1405
Lysiphlebus testaceipes (a parasitic
braconid) 412
Lytta cyanipennis (a blister beetle)
165
Lytta stygica
994

M

Macremphytus sp. (a sawfly)
1025
Macremphytus tarsatus
379
Macrocentrus calacte (a parasitic
braconid) 20
Macrocentrus cerasivoranae
1354
Macrocentrus gifuensis
1029, 1337, 1378
Macroductylus subspinosus (rose
chafer) 194, 378, 619, 643,
655, 688, 695, 725, 763, 792,
799, 834, 860
Macronoctua onusta (iris borer)
377, 586, 725, 1117, 1189
Macrosiphoniella sanborni
(chrysanthemum aphid) 374,
1024, 1216, 1270, 1365
Macrosiphum spp.
321, 435
Macrosiphum ambrosiae see
Dactynotus ambrosiae

Macrosiphum anomalae
994
Macrosiphum atripes
560
Macrosiphum avenae (English grain
aphid) 11, 27, 43, 63, 84,
87, 103, 115, 131, 132, 139,
179, 215, 251, 279, 315, 392,
428, 457, 482, (503), (504),
(505), 514, 547, 606, 636, 668,
705, 745, 783, 816, 850, 907,
980, (1035), 1239, 1274, 1289,
1329, 1345, 1357, 1361, 1373,
1393, 1405, 1421
Macrosiphum barri see Acyrtosiphon
barri
Macrosiphum cockerelli
418
Macrosiphum dirhodum see
Acyrtosiphon dirhodum
Macrosiphum eoesigii
353, 994
Macrosiphum euphorbiae (potato
aphid) 83, 227, 245, 288,
520, 552, 613, 646, 677, 714,
754, 791, 825, 858, 915, 951,
952, 986, 1013, 1014, 1049,
(1067), 1079, 1112, (1197),
1210, 1314, 1376, 1396
Macrosiphum granarium see
Macrosiphum avenae
Macrosiphum liriiodendri (tuliptree
aphid) 353
Macrosiphum pelargonii see
Acyrtosiphon pelargonii
Macrosiphum pisi see Acyrtosiphon
pisum
Macrosiphum rosae (rose aphid)
74, 365, 374, 401, 436, 466,
560, 688, 1024, 1118, 1216,
1297, 1334, 1365
Macrosiphum rudbeckiae see
Dactynotus rudbeckiae
Macrosiphum scoliopi
1245
Macrosteles fascifrons (six-
spotted leafhopper) 160, 241,
242, 392, 429, 457, 478, 500,
513, 521, 547, 551, 578, 637,
647, 679, 717, 745, 782, 790,
816, 828, 849, 860, 917, 953,
987, 1016, 1096, (1254), 1262,
1401
Maecolaspis spp. see
Colaspis spp.
Maecolaspis pini see
Colaspis pini
Magdalis armicollis (red elm bark
weevil) 338
Magdalis austera substriga
688
Magdicada septendecim (periodical
cicada) 199
Malacosoma spp. .
219, 255, 321, 345, 349, 361,
429, 435, 465, 474, 517, 641,
797, 833, 869, (1199), 1316
Malacosoma americanum (eastern tent
caterpillar) 106, 115, 188,
198, 252, 255, 281, 317, 321,
344, 361, 364, 377, 393, 400,
408, 429, 434, 441, 442, 464,
474, 491, 525, 549, 558, 585,
608, 617, 653, 685, 723, 833
Malacosoma californicum (California
tent caterpillar) 1296
Malacosoma constrictum
345
Malacosoma disstria (forest tent
caterpillar) 283, 321, 345,
364, 400, 435, 465, 525, 608,
617, 641, 653, 660, 675, 685,
723, 833, 868, 923, 1152, 1183,
1214, 1402

Malacosoma fragile (Great Basin tent caterpillar) 321, 345, 465, 797, 868
Malacosoma pluviale (western tent caterpillar) 429, 465, 578, 641, 653, 660
Malacosoma texanum 283, 321, 364, 400, 435
Maladera castanea (Asiatic garden beetle) 169, 378, 607, 736, 770, 804, 839, 840, 874, 933, 1029, 1122
Mamestra brassicae (cabbage moth) 97, 970, 1418
Mantis religiosa (European mantis) 20
Mansonia perturbans (a mosquito) 293, 322, 928, 963, 1056
Marmara arbutiella (a leaf blotch miner) 401, 960
Masonaphis lambersi (an aphid) 374
Matsucoccus acalyptus 355, 364
Matsucoccus resinosa (a red-pine scale) 355, 1150
Matsumuraes phaseoli (an olethreutid moth) 97, 807
Megacheuma brevipennis (a long-horned beetle) 660
Megachile spp. (leafcutting bees) 324, 587, 835
Megachile dentitarsus 379, 412
Megachile rotundata 412, 873, 1029
Megacyllene robiniae (locust borer) 335, 441, 694, 797, 1084, 1117, 1121, 1151
Megalopyge opercularis (puss caterpillar) 119, 301, 347, 377, 1023, 1087, 1118, 1120, 1156, 1247, 1271
Megarhyssa sp. (an ichneumon) 660, 769
Megaselia sp. (a humpbacked fly) 81, 1314
Megaxyela langstoni (a sawfly) 395, 431
Melanagromyza viridis (a leaf miner fly) 1155
Melanaspis aliena (an armored scale) 620
Melanocallis caryaefoliae (black pecan aphid) 395, 431, 461, 550, 644, 856, 1013, 1078, 1111, 1142, 1158, 1177, 1265, 1292, 1348
Melanophila californica (California flatheaded borer) 335, (1200)
Melanophila drummondi (flatheaded fir borer) 335, (1200), 1295
Melanoplus spp. 127, 129, 202, 248, (271), (273), (274), 499, 509, 541, 573, 601, 627, 633, 665, 666, 701, 702, 741, 779, 813, 846, (888), (889), (891), 901, 977, 1005, 1041, 1073, 1117, 1141, 1205, 1291, 1374
Melanoplus bivittatus (two-striped grasshopper) 126, 127, 128, 129, 393, 427, 428, 458, 483, 509, 541, 573, 601, 633, 665, 666, 701, 702, 741, 742, 779, 813, 845, 846, 880, 901, 902, 941, 977, 1041, 1110, 1117, 1122, 1176, 1205, 1292, 1312
Melanoplus borealis 902, 942, 1205
Melanoplus bruneri 942
Melanoplus confusus 126, 458, 483, 541, 573, 633, 666, 702

Melanoplus dawsoni 128, 941
Melanoplus devastator (devastating grasshopper) 903
Melanoplus differentialis (differential grasshopper) 126, 127, 128, 129, 458, 509, 541, 573, 601, 633, 666, 701, 702, 741, 742, 779, 813, 845, 846, 901, 902, 941, 977, 978, 1005, 1041, 1073, 1110, 1117, 1141, 1239, 1291, 1292, 1312
Melanoplus femurrubrum (red-legged grasshopper) 126, 127, 128, 129, 427, 458, 483, 509, 541, 573, 601, 633, 634, 665, 666, 701, 702, 741, 742, 779, 813, 845, 846, 901, 902, 941, 977, 978, 978, 1005, 1041, 1073, 1110, 1117, 1122, 1141, 1176, 1239, 1264, 1291, 1292, 1312, 1330, 1347, 1362
Melanoplus lakinus 126
Melanoplus marginatus 846
Melanoplus occidentalis 126, 127, 573, 779, 845, 902
Melanoplus oregonensis 1205
Melanoplus packardii (Packard grasshopper) 126, 127, 458, 483, 509, 601, 633, 665, 701, 702, 779, 813, 845, 901, 902, 941, 977, 1005, 1041, 1117, 1292, 1312
Melanoplus sanguinipes (migratory grasshopper) 125, 126, 127, 128, 129, 393, 427, 428, 442, 458, 483, 509, 541, 573, 633, 665, 666, 701, 702, 741, 779, 780, 813, 814, 845, 846, 880, 901, 902, 916, 941, 977, 1005, 1041, 1141, 1176, 1205, 1292, 1312
Melanoplus viridipes 541
Melanotus spp. (wireworms) 152, 577, 668
Melanotus communis 392, 636, 649, 695, 705, 733, 744, 1312
Meleoma emuncta (a green lacewing) 624
Melipotis indomita (a cutworm) 1011
Melissopus latiferraeus (filbertworm) 203, 384, 822, 949
Melitara sp. (a phycitid moth) 413
Melittia cucurbitae (squash vine borer) 239, 553, 613, 648, 755, 826, 858, 987, 1015, 1050
Meloe spp. (blister beetles) 226, 428, 1349
Meloe angusticollis 1421
Meloidogyne sp. (a nematode) 75
Melolontha melolontha (a scarab) 1064
Melophagus ovinus (sheep ked) 31, 141, 299, 367, 369, 494, 736, 872, 1218
Menacanthus stramineus (chicken body louse) 107, 183, 300, 404
Menopon gallinae (shaft louse) 300, 438
Mermiria sp. (a grasshopper) 741
Mermiria maculipennis 127, 702, 741

Meromyza americana (wheat stem maggot) 134, 547, 577, 706, 744, 783, 817, 850, 1312
Mesograpta marginata (a flower fly) 873
Metallus capitalis (a sawfly) 64
Metcalfa pruinosa (a flatid planthopper) 620, 789, 798, 869
Meteorus spp. (braconids) 616, 721
Metoponia rubriceps (a sod fly) 171, 1330
Metoponium spp. (darkling beetles) 226, 305, (1198)
Metriona spp. 987
Metriona bicolor (Golden tortoise beetle) 553, 694, 827, 987
Metriona bivittata see Agroiconota bivittata
Mezira membranacea (a flat bug) 971, 1061 (see second correction)
Mezium affine (a spider beetle) 20, 306, 439
Mezium americanum 368, 441
Miccotrogus picirostris (clover seed weevil) 20, 95, 165, 425, 575, 638, 670, 746, 910, 1401
Micracis hirtellus (a bark beetle) 310
Microcentrum retinerve (angular-winged katydid) 1122
Microcerotermes sp. (a termite) 970
Microdon aurulentus (a flower fly) 440
Microlarinus spp. (puncturevine weevils) 411, 590, 769, 839, 931, 1093, 1121
Microlarinus lareynii 94, 290, 411, 413, 471, 590, 769, 931, 1029, 1094, 1121, 1158, 1188
Microlarinus lypriformis 411, 413, 590, 769, 931, 1093, 1121, 1381
Micromyzus formosanus (an aphid) 1376
Microparsus olivei (an aphid) 882
Microporus obliquus (a stink bug) 1375
Microtermes aluco (a termite) 80
Milax gagates (greenhouse slug) 487
Milchiella lacteipennis (a milchid fly) 536
Mindarus abietinus (balsam twig aphid) 20, 557
Monarthropalpus buxi (boxwood leaf miner) 379, 1397
Monellia spp. 1078, 1111, 1142, 1292
Monellia caryae 799
Monellia costalis (black-margined aphid) 204, 610, 675, 752, 868, 869, 1013
Monocesta coryli (larger elm leaf beetle) 336, 337, 722, 733, 923, 1023, 1084
Monochamus maculosus (spotted pine sawyer) 320
Monochamus scutellatus (white-spotted sawyer) 721
Monochamus titillator (southern pine sawyer) 721, 831
Monoctenus melliceps (a conifer sawfly) 617

Monomorium spp.
323
Monomorium destructor
21
Monomorium pharaonis (Pharaoh ant)
(1202)
Mononychus vulpeculus (iris weevil)
619
Monophadnoides geniculatus
(raspberry sawfly) 243, 582
Monoptilota pergratialis (lima-
bean vine borer) 1112
Monoxia angularis (a leaf beetle)
819
Mordellistena sp. (a tumbling
flower beetle) 688
Mordwilkoja vagabunda (poplar
vagabond aphid) 353
Mosillus tibialis (an ephydrid
fly) 300
Murgantia histrionica (harlequin
bug) 237, 252, 488, 647, 952,
(1065), 1169, 1314
Musca spp.
118
Musca autumnalis (face fly)
21, 222, 293, 294, 295, 307,
322, 323, 367, 402, 408, 438,
467, 474, 494, 530, 556, 561,
587, 622, 656, 691, 695, 696,
729, 732, 733, 736, 767, 800,
837, 870, 928, 963, 997, 1026,
1058, 1087, 1156, 1186, 1187,
1218, 1271, 1300, 1335, 1366, 1398
Musca domestica (house fly)
67, 74, 257, 295, 438, 467, 494,
530, 556, 561, 622, 656, 696, 729,
736, 767, 801, 872, 929, 964,
997, 1027, 1058, 1087, 1120,
1156, 1186, 1187, 1218, 1247,
1270, 1274, 1298, 1300, 1319,
1320, 1335, 1353, 1366, 1398
Musca domestica vicina (oriental
house fly) 81
Musca lusoria
81
Musca sorbens
81
Mycodiplosis alternata (dogwood
club-gall midge) 220, 1317
Myeloborus sp. (a bark beetle)
333
Myianoetus muscarum (an anoetid
mite) 257
Myiopardalis paradalina (Baluchistan
melon fly) 70, 72, 73
Mylabris sp. (a blister beetle)
79
Mylabris oleae*
75, 77
Myzocallis arundinariae
321
Myzocallis californicus
353, 527, 835
Myzocallis caryaefoliae
204, 788
Myzocallis coryli
204, 395, 610, 713, 799, 822
Myzocallis elegans
654
Myzocallis frisoni
466
Myzocallis kahawaluokalani
(crapemyrtle aphid) 374, 619
Myzocallis robiniae
353, 799
Myzocallis ulmifolii (elm leaf
aphid) 353, 559, 764
Myzus ascalonicus (shallot aphid)
1396

Myzus cerasi (black cherry aphid)
199, 353, 394, 485, 609, 643,
659, 675, 713, 752, 788, 1240
Myzus circumflexus see
Neomyzus circumflexus
Myzus ornatus
284, 436
Myzus persicae (green peach aphid)
44, 64, 72, 76, 105, 119, 139,
140, 141, 158, 180, 181, 182,
199, 227, 233, 234, 237, 242,
243, 247, 253, 255, 282, 284,
317, 318, 321, 360, 362, 374,
394, 397, 401, 410, 432, 460,
462, 484, 485, 487, 516, 523,
533, 549, 579, 619, 643, 645,
677, 714, 717, 754, 756, 790,
791, 825, 828, 835, 858, 861,
881, 915, 917, 925, 951, 954,
986, 988, 1009, 1014, 1017,
1049, 1051, (1067), 1080, 1081,
(1097), 1112, 1114, 1145, 1179,
1180, (1196), 1240, 1243, 1266,
1294, 1313, 1314, 1334, 1350,
1376, 1396, 1408, 1423, 1424
Myzus polaris
374
Myzus porosus see Acyrtosiphon
porosus
Myzus sensoriatu
436
Myzus solani see Acyrtosiphon
solani

N

Nabis spp. (damselfly bugs)
222, 287, 324, 369, 405, 411,
414, 440, 471, 498, 565, 590,
624, 638, 639, 659, 693, 731,
769, 803, 839, 873, 932, 965,
999, 1028, 1029, 1088, 1121,
1158, 1188, 1219, 1248, 1411
Nabis alternatus
110, 498, 533, 565, 590, 638,
1029
Nabis capsiformis
110
Nabis deceptivus
110
Nabis ferus
110, 414, 532, 565, 693, 1096,
1238, 1261, 1337, 1378
Nabis roseipennis
110, 1188
Nabis sordidus
110
Nacerdes melanura (wharf borer)
310, 730
Nadata gibbosa (a notodontid moth)
492
Nalepella sp. (an eriophyid mite)
1085
Nalepella tsugifoliae
380, 400
Nasonovia lactucae (an aphid)
493
Nasutitermes chaquimayensis
(a termite) 502
Negosiana dualis (a leafhopper)
418
Nemopogon granella (European grain
moth) 245, 628, 630
Nematus ribesii (imported currant-
worm) 207, 518, 551
Nemobius fasciatus (a cricket)
306, 1046, 1060, 1141, 1174
Nemocestes incomptus (a weevil)
244, 1187
Neobellamira delicata (a round-
headed wood borer) 47

Neoborus sp. (a plant bug)
617
Neoborus illitus
284, 352
Neoborus pacificus
686, 724
Neoclytus sp.
336
Neoclytus acuminatus (red-headed
ash borer) 306
Neoclytus conjunctus
288
Neodiprion spp. (conifer sawflies)
14, 29, 254, 350, 464, 558, 722,
804, 832, 866, 1022, 1150, 1376
Neodiprion abietis (balsam-fir
sawfly) 350
Neodiprion compar
29
Neodiprion excitans
29, 254, 350, 1022, 1150
Neodiprion fulviceps
14, 804
Neodiprion lecontei (red-headed
pine sawfly) 29, 254, 350,
525, 558, 722, 761, 832, 866,
959, 993, 1022, 1054, 1150,
1213, 1268, 1296
Neodiprion nanulus contortae
14
Neodiprion nanulus nanulus (red-
pine sawfly) 684, 722
Neodiprion pinetum (white-pine
sawfly) 351, 993
Neodiprion pini-rigidae
1150
Neodiprion pratti banksianae
(Jack-pine sawfly) 351, 525,
684, 761
Neodiprion pratti paradoxicus
1150
Neodiprion pratti pratti
351, 492, 524, 584, 761, 866,
1150
Neodiprion sertifer (European pine
sawfly) 351, 464, 524, 558,
584, 617, 653, 684, 685, 722,
733, 761, 1150
Neodiprion taedae linearis
254, 350, 351, 400, 464, 524,
558, 722, 1150
Neodiprion tsugae (hemlock sawfly)
350
Neolecanium cornuparvum (magnolia
scale) 373, 586, 688, 835,
1024, 1085, 1154
Neolygus caryae see Lygocoris
caryae
Neomyzus circumflexus (crescent-
marked lily aphid) 84
Neophasia menapia (pine butterfly)
349, 1296, 1333
Neophylaphis araucariae (an aphid)
1334
Neoprociphilus sp.
764
Neorhynchocephalus volaticus
(a nemestrinid fly) 21, 419
Neothomasia populicola
493, 1184, 1245, 1376, 1396
Nepelodes emmedonia (bronzed
cutworm) 169, 391, 427, 483,
577, 607, 804, 1401
Nephopteryx sp. (a phycitid moth)
77
Nephrotoma sodalis (a crane fly)
1402
Nepytia sp. (a geometrid moth)
344
Neurocolpus nubilus (a plant bug)
268, 269, 1020
Neurotoma sp.
525
Neurotoma fasciata
351, 835

*Carried in CEIR Vol. 13 as Zonabris
oleae

- Neurotoma inconspicua* (plum web-spinning sawfly) 1055
Newsteadia americana (a coccid) 21
Nezara immaculata (a stink bug) 82
Nezara viridula (southern green stink bug) 78, 79, 94, 173, 186, 211, 228, 231, 247, 391, 535, 536, 550, 625, 773, (894), 947, 971, 1094, 1223, (1226), 1314, 1323, 1324, 1416
Nilotaspis halli (Hall scale) 516, 579
Noctuelia rufofascialis (a pyraustid moth) 268, 433
Nodonota puncticollis (rose leaf beetle) 725
Nomia melanderi (alkali bee) 412, 565, 624, 694, 731, 839, 873, 999, 1060
Norma dietziana (a leaf tier) 32
Norvellina chenopodii (a leafhopper) 924
Notoxus constrictus (an anthricid beetle) 1208, 1313
Novelsis sp. (a dermestid beetle) 966
Novelsis aequalis 874
Nygma phaeorrhoea (brown-tail moth) 14, 65, 284, 346, 435, 558, 867, 1054, 1153
Nymphalis antiopa (mourning-cloak butterfly) 259, 348, 364, 435, 465, 618, 654, 723, 762, 834, 869, 961, 993, 1023, 1118, 1244
Nysius spp. 170, 363, 457, 576, 708, 745, 869, 933, 947, 999
Nysius ericae (false chinch bug) 576, 606, 669, 745, 953, 1189
Nysius raphanus 457, 499, 553, 555, 676, 682, 708, 719, 732, 770, 782, 821, 1239
- Oberea bimaculata* (raspberry cane borer) 243, 614, 793, 827
Oberea tripunctata (dogwood twig borer) 378, 1055
Ochyromera ligustri (a weevil) 763
Octotoma scabripennis (a chrysomelid beetle) 1093
Odinadiplosis sp. (a cecidomyiid) 73
Odonaspis penicillata (a scale insect) 181, 365, 528, 689
Odonaspis ruthae 170
Odontaleyrodes rhododendri (a whitefly) 141
Odontopus calceatus (a leaf-mining weevil) 338, 528, 1151
Odontotermes sp. (a termite) 83
Odontotermes sudanensis 79
Oebalus pugnax pugnax (rice stink bug) 7, 133, 457, 513, 705, 745, 782, (810), 816, 849, 907, 945, 980, 1008, 1043, 1074, 1106, 1138
Oecanthus spp. (snowy tree crickets) 167, 489, 621, 800, 869
Oecanthus argentinus 419
- Oeciaceus vicarius* (swallow bug) 474, 622, 692
Oedaleonotus enigma (a grasshopper) 126, 633, 665, 701, 741, 780, 846
Oedemagena tarandi (a reindeer warble) 297
Oestrus ovis (sheep bot fly) 589, 730, 1087
Okanagana spp. (cicadas) 352, 418
Okanagana luteobasilis 170
Oligonychus spp. 11, 154, 380, 464, 467, 689, 835
Oligonychus bicolor 356, 528, 995
Oligonychus coniferarum 494, 689, 765, 1408
Oligonychus ilicis (southern red mite) 285, 528, 962, 1366, 1397
Oligonychus platani 220, 356, 1025
Oligonychus pratensis (Banks grass mite) 11, 483, 851, 912, 1074, 1106
Oligonychus punicae (avocado brown mite) 208, 926, 995, 1013
Oligonychus subnudus 464, 587, 1377
Oligonychus ununguis (spruce spider mite) 255, 365, 380, 400, 464, 494, 528, 722, 796, 835, 922, 962, 1185, 1350
Oligonychus viridis 985
Oligotrophus spp. (gall midges) 379, 494, 727
Olla abdominalis (a lady beetle) 110, 498
Olla abdominalis sobrina 411, 1399
Oncideres cingulata (twig girdler) 335, 526, 1116, 1150, 1215, 1241, 1245, 1274, 1297, 1316, 1334, 1350
Oncocnemis punctilinea (a noctuid moth) 347
Oncometopia spp. (leafhoppers) 753
Onthophagus catta 1093, 1381
Onthophagus sagittarius 1381
Onychiurus fimetarius (a podurid springtail) 1014
Onychiurus pseudarmatus 288
Ooencyrtus kuwanai (an encyrtid) 219, 283
Opeia obscura (a grasshopper) 1041
Operophtera bruceata (Bruce spanworm) 1152
Operophtera brumata (winter moth) 1402
Operophtera occidentalis 485
Ophionyssus natricis (a snake mite) 1186
Opius ferrugineus (a parasitic braconid) 413
Opius rhagoleticoides 413
Orgyia antiqua (rusty tussock moth) 13, 346
Oriulus venustus (a milliped) 768, 1121
Orius spp. (flower bugs) 413, 414, 498, 769, 1029, 1088, 1219, 1248
- Orius insidiosus* 110, 369, 413, 471, 498, 532, 565, 638, 660, 694, 839, 850, 932, 1028, 1248
Orius tristicolor 638, 1029, 1248
Ormenis pruinosa see *Metcalfa pruinosa*
Ornithodoros kelleyi (an argasid tick) 622
Ornithodoros savignyi 77
Ornithonyssus sp. 930
Ornithonyssus bacoti (tropical rat mite) 107, 303, 692, 1186, 1272, 1410
Ornithonyssus bursa (tropical fowl mite) 1398
Ornithonyssus sylviarum (northern fowl mite) 46, 303, 367, 692, 930, 998, (1199), 1377
Orocharis spp. (crickets) 800, 1377
Orocharis saltator 764
Orphulella pelidna (a grasshopper) 1041
Orphulella speciosa 1041
Orthezia sp. 1335
Orthezia insignis (greenhouse orthezia) 561, 726, 1093
Orthodera sp. (a mantid) 1323
Orthomorpha gracilis see *Oxidus gracilis*
Orthosia hibisci (a noctuid moth) 377
Oryzaephilus surinamensis (saw-toothed grain beetle) 46, 184, 221, 306, 324, 382, 497, 629, 873, 931, 1088, 1158, 1186, (1202), 1219, 1228, 1229, 1230, 1231, 1232, 1248, 1272, 1291, 1301, 1320, 1336, 1410, 1426
Oscinella frit (frit fly) 171
Ostrinia nubilalis (European corn borer) 33, (48), (51), 144, 145, 146, 226, (272), 279, 315, 359, 391, 408, 410, 413, 428, 442, 483, 501, 514, 536, (537), (538), 546, 567, 568, 581, 591, 604, 626, 627, 634, 661, 662, 666, 696, 697, 703, 732, 733, 734, 742, 771, 772, 781, 791, 805, 806, 815, 841, 842, 848, 876, 877, 880, 884, 903, 916, 934, 935, 936, 937, 938, 943, 944, 952, 967, 968, 969, 979, 1001, 1002, 1006, 1014, 1029, 1032, 1033, 1034, 1042, 1062, 1063, 1074, 1082, 1090, 1091, 1092, 1105, 1123, 1124, 1137, 1160, 1161, (1164), 1173, 1179, 1190, 1191, 1205, 1221, (1227), 1237, 1251, 1252, (1253), 1262, 1291, 1321, 1337, 1378, (1382), 1402
Otobius megnini (ear tick) 107, 220, 257, 302, 438, 563, 838, 1157, 1186, 1319, 1377, 1398, 1424
Oulema melanopa (cereal leaf beetle) 11, 18, 21, 135, 325, 428, 456, 481, 512, 536, 546, 566, 577, 635, 667, 695, 704, 743, 774, 781, 814, 847, 942, 966, 980, 1007, 1074, 1207, 1311

Ovatus crataegarius (a mint aphid)
84
Oxidus gracilis (a milliped)
566
Oxycarenus hyalinipennis (cotton-
seed bug") 80, 1340
Oxychilus alliarius (a snail)
280, 285
Oxychilus cellarius
1249
Oxychilus draparnaldi
280
Oxyrhachis tarandus (a treehopper)
77

P

Pachodynerus nasidens (a vespid
wasp) 971
Pachylobius picivorus (a pine
weevil) 254, 524, 958, 1148
Pachyneuron sp. (a parasitic
pteromalid) 78
Pachyphylla celtidisinteneris
961
Pachyphylla celtidismamma
(hackberry-nipple-gall maker)
307, 354, 406, 526, 566, 1153,
1218, 1246, 1396
Pachyphylla celtidisvesicula
143, 183, 354, 435, 528, 689
Pachyphylla venusta
926
Pachyzancla phaeopteralis (a sod
webworm) 911
Paleacrita vernata (spring
cankerworm) 181, 326, 343,
364, 370, 394, 400, 407, 459,
465, 491, 525, 549, 558, 584,
609, 644, 653, 685, 723, 736,
762, 867, 1151
Palorus ratzeburgi (a darkling
beetle) 629
Pandeleiteus cinereus (a weevil)
281
Pangaeus bilineatus (a burrowing
stink bug) 173
Panonychus citri (Citrus red mite)
3, 28, 71, 104, 139, 211, 217,
282, 363, 395, 396, 486, 561,
644, 645, 710, 788, 789, 822,
823, 856, 914, 950, 1012, 1078,
1111, 1143, 1178, (1196), 1210,
1241, 1242, 1293, 1331, 1363,
1406, 1422
Panonychus ulmi (European red
mite) 194, 195, 201, 205,
207, 362, 395, 431, 460, 474,
484, 517, 550, 556, 579, 610,
641, 674, 711, 751, 786, 820,
835, 854, 880, 913, 948, 984,
1013, 1048, 1077, 1085, 1110,
1113, 1177, (1196), 1240, 1313,
1402
Pantomorus godmani (Fuller rose
beetle) 193, 207, 211, 650,
1270, 1424
Papaipema nebris (stalk borer)
147, 226, 246, 267, 377, 586,
612, 619, 634, 703, 733, 743,
744, 758, 782, 790, 798, 815,
827, 828, 849, (1384)
Papilio sp.
79
Papilio cresphontes (orange-dog)
3, 753, 1178, 1265, 1293, 1313,
1331
Papilio glaucus (tiger swallowtail)
959
Papilio polyxenes asterius (black
swallowtail, parsleyworm) 756

Papilio zelicaon
211
Paracalacarus podocarpi (an
eriphyid mite) 380
Paraclemensia acerifoliella
(maple leaf cutter) 344
Paracoelidea tuberculata
(a leafhopper) 617
Paracotalpa granicollis (a scarab)
548
Parallelodiplosis florida (a gall
midge) 1408
Paralobesia viteana (grape berry
moth) 205, 645, 676, 713, 789,
823, 856, 914, 950, 985, 1048,
1078, 1178
Paramyelois transitella (navel
orangeworm) 44, 383, (1199),
1331, 1347, 1363, 1394
Paranthrene sp. (an aegeriid moth)
321
Paranthrene dollii
321
Paranthrene robiniae
994
Parasarcophaga misera (a sarcophagid
fly) 971
Paratrioza cockerelli (potato
psyllid, tomato psyllid) 140,
218, 228, 252, 282, 318, 363,
375, 397, (450), 487, 552, 581,
612, 646, 677, 715, 736, 753,
791, 825, 858, 915, 951, 986,
(1067), (1068), 1079, 1112
Paratrioza lavaterae
106
Parcoblatta spp. (wood cockroaches)
564, 623
Parcoblatta pennsylvanica
564, 623
Pardalaspis sp. (a fruit fly)
79
Pardalophora apiculata (a grass-
hopper) 541
Pardalophora haldemanni
665
Parectopa robinella (a leaf blotch
miner) 344
Paria fragariae (strawberry root-
worm) 709
Parlatoria blanchardi (parlatoria
date scale) 75, 79
Parlatoria camelliae
1118
Parlatoria oleae (olive scale)
65, 71, 180, 199, 204, 372, 436,
(1197), 1350, 1421
Parlatoria pergandii (chaff scale)
71, 76, 104, 210, 217, 321, 395,
396, 486, 620, 644, 645, 710,
788, 823, 856, 950, 1012, 1056,
1079, 1143, 1144, 1241, 1242,
1293, 1331, 1363, 1406, 1423
Parlatoria proteus
106, 365, 1056
Parlatoria pseudaspidiotus
79
Parlatoria zizyphus (black
parlatoria scale) 71, 76, 82
Patapius spinosus (a leptopodid
bug) 17, 418
Patasson calendrae (a mymarid
wasp) 1093, 1323
Pealus azaleae (azalea whitefly)
21, 375, 536, 689, 1317
Pectinophora gossypiella (pink
bollworm) 3, 13, 55, 64, 70,
74, 75, 80, 88, 181, 218, 259,
260, 266, 320, 364, 399, 407,
433, 489, 501, 523, 534, 591,
615, 627, 650, 682, 696, 697,
719, 758, 772, 795, 830, 842,
863, 881, 920, 991, 1052, 1181,
1212, 1243, (1257), 1274, 1267,
1294, 1315, 1333, 1365, 1375,
1395, 1407, 1423

Pediculus humanus capitis (head
louse) 300
Pediobius aphidiphagus (a parasitic
eulophid) 1354
Pegomya sp.
612
Pegomya betae (beet leaf miner)
1402
Pegomya hyoscyami (spinach leaf
miner) 234, 582, 612, 646,
678, 716, 755, 792, 859, 1016,
1113, 1179, 1243
Pelidnota punctata (a scarab)
416
Pemphigus spp.
414, 799, 1314
Pemphigus betae (sugar-beet root
aphid) 1113
Pemphigus populitransversus (poplar
petiole gall aphid) 64, 140,
181, 353, 560, 619
Pentatrachopus spp.
245
Pentatrachopus fragaefolii
(strawberry aphid) 244, 253,
487, 554, 680
Pentatrachopus minor
398
Pentatrachopus thomasi
398, 1349, 1375
Penthaleus major (winter grain
mite) 63, 87, 103, 115, 136,
215, 280, 316, 429, 515, (1196),
(1256), 1374, 1394, 1405, 1421
Peponapis pruinosa (an aphid bee)
932
Peregrinus maidis (corn planthopper)
82
Peridroma saucia (variegated
cutworm) 166, 175, 243, 255,
259, 279, 289, 326, 370, 407,
443, 455, 473, 480, 501, 512,
534, 545, 553, 567, 568, 576,
582, 591, 604, 626, 627, 650,
661, 662, 680, 696, 697, 716,
734, 735, 771, 772, 805, 806,
828, 841, 842, 876, 877, 884,
917, 924, 934, 935, 936, 937,
938, 953, 967, 968, 969, 982,
987, 1001, 1002, 1011, 1032,
1033, 1034, 1062, 1063, 1090,
1091, 1092, 1123, 1124, 1160,
1161, 1190, 1191, 1221, 1222,
1251, 1252, 1275, 1276, 1303,
1321, 1322, 1338, 1339, 1356,
1370, 1380, 1401, 1421
Perimegatomia spp. (dermestid
beetles) 381, 385
Periphyllus lyropictus (Norway-
maple aphid) 353, 411, 585, 654,
799, 1118, 1153, 1184, 1269,
1317
Periphyllus negundinis (boxelder
aphid) 353, 466, 619, 654
Periplaneta americana (American
cockroach) 629, 1121, 1157,
(1202)
Periploca ceanothiella (a twig
girdler) 1408
Periploca nigra (a juniper twig
moth) 117, 140, 181, 219, 284,
376, 435, 1245, 1349, 1376
Petrobia harti
995
Petrobia latens (brown wheat mite)
135, 136, 215, 279, 316, 325,
360, 392, 408, 429, 458, 483,
499, 515, 547, 578, 607, 669,
746, 786, (974), (1035), (1126),
(1196), 1264
Petrova sp.
348
Petrova comstockiana (pitch twig
moth) 832, 865

- Petrova luculentana
958
- Phalonia hospes (banded sunflower moth) 1011
- Phalonia zephyrana (European carrot borer) 502
- Pheidole californica pyramidentis (an ant) 21
- Phenacaspis cockerelli
30, 65, 141, 181, 284, 321, 402, 436, 493, 586, 620, 995, 1085, 1298, 1365
- Phenacaspis pinifoliae (pine needle scale) 14, 254, 355, 373, 408, 411, 500, 557, 617, 652, 684, 722, 796, 835, 922, 958, 1022, 1116, 1183, 1244, 1296, 1316, 1350, 1396
- Phenacoccus acericola
355
- Phenacoccus aceris (apple mealybug) 788, 821
- Phenacoccus eriogoni
373
- Phenacoccus gossypii (Mexican mealybug) 644, 926, 1056
- "Phenacoccus" hirsutus (hibiscus mealybug) 79
- Phenacoccus solani
1350, 1424
- Phigalia titea (a geometrid moth) 369, 558, 1153
- Philaenus spumarius (meadow spittlebug) 158, 159, 245, (274), 359, 390, 426, 455, 474, 478, 510, 533, 544, 556, 576, 582, 603, 639, 649, 672, 708, 748, 784, 818, 852, 860, (885), 981, 1009, 1045, 1076, 1108, 1139, (1165), (1166), 1175, (1254), 1262, 1290, 1311, 1329, 1345, 1361, (1386)
- Philia spp.
see Dilophus spp.
- Philia orbata
see Dilophus orbatus
- Philia strigilata
see Dilophus strigilatus
- Phlebotomus orientalis
81
- Phlebotomus papatasi
81
- Phlibostroma quadrimaculatum (a grasshopper) 127, 665, 702, 741, 779, 902
- Phloeosinus spp. (cedar bark beetles) 29, 333
- Phloeosinus canadensis
21
- Phloeosinus dentatus
21
- Phloeosinus squamosus
333
- Phloeotribus scarabaeoides (a bark beetle) 76
- Phoetaliotes nebrascensis (a grasshopper) 741, 902
- Phormia regina (black blow fly) 46, 299, 322, 402
- Phorodon humuli (hop aphid) 860
- Phorodon menthae
see Ovatus crataegarius
- Phryganidia californica (California oakworm) 105, 342, 1269
- Phthirus pubis (crab louse) 89, 300
- Phycita poteriella
81
- Phyllobius intrusus (arborvitae weevil) 378, 763
- Phyllobius oblongus
770
- Phyllocnistis citrella (citrus leaf miner) 74
- Phyllocnistis populiella
347, 762
- Phyllocnistis vitigenella
21, 206, 212
- Phyllocoptes gracilis (dryberry mite) 1267
- Phyllocoptruta oleivora (citrus rust mite) 3, 28, 70, 71, 104, 211, 217, 395, 396, 486, 644, 645, 675, 710, 736, 788, 789, 822, 823, 856, 950, 1011, 1078, 1143, (1196), 1241, 1242, 1293, 1331, 1341, 1342, 1363, 1400, 1406, 1422, 1426
- Phyllophaga spp. (May beetles) 169, (271), 912
- Phyllophaga anxia
169, 458
- Phyllophaga bruneri (a Cuban May beetle) 1178, 1215
- Phyllophaga elizoria
487
- Phyllophaga ephilida
1047
- Phyllophaga hirticula
174, 912
- Phyllophaga koehleriana
338, 416
- Phyllophaga lanceolata
513
- Phyllophaga rubiginosa
472
- Phyllophaga tristis
559
- Phyllotreta spp. (flea beetles) 236, 432, 488, 551, 828, 1174, 1401
- Phyllotreta albionica
428
- Phyllotreta cruciferae
462, 488, 519, 580, 828, 1050, 1145, 1174
- Phyllotreta mashonana
83
- Phyllotreta pusilla (western black flea beetle) 580, 612, 679
- Phyllotreta striolata (striped flea beetle) 230, 234, 236, 397, (448), 488, 551, 580, 646, 707, 736, 790, 828, 917
- Phylloxera sp.
724
- Phylloxera devastatrix (pecan phylloxera) 204, 610, 675
- Phylloxera notabilis (pecan leaf phylloxera) 518
- Phylloxera vitifoliae (grape phylloxera) 75, 985, 1013, 1111
- Phymatodes testaceus (a long-horned beetle) 306
- Physcus debachi (a parasitic eulophid) 413
- Physokermes sp.
1315
- Physokermes coloradensis
400
- Physokermes piceae (spruce bud scale) 684, 1213
- Phytobia maculosa (a leaf miner fly) 1317
- Phytomyza spp.
436, 492, 528
- Phytomyza atricornis (chrysanthemum leaf miner) 1155
- Phytomyza ilicicola (native holly leaf miner) 284, 365, 379, 467, 492, 528, 556, 561, 621, 656, 765, 1216
- Phytomyza ilicis (holly leaf miner) 255, 379, 528
- Phytomyza minuscula (columbine leaf miner) 689, 727
- Phytophaga destructor (Hessian fly) 3, 74, 134, 251, (273), 316, 359, 392, 429, 458, 483, 515, 547, 577, 606, 706, 736, 744, 783, 817, 850, 906, 1074, (1128), 1240, 1264, (1278), 1292, 1312, 1347, (1383), 1401, 1421
- Phytophaga rigidiae (willow beaked-gall midge) 1376
- Phytoseiulus macropilis (a phytoseiid mite) 406
- Phytoseiulus persimilis
185
- Pieris spp.
72
- Pieris brassicae (large white butterfly) 77, 83, 1250
- Pieris protodice (southern cabbageworm) 236, 553
- Pieris rapae (imported cabbage-worm) 235, 236, 363, 397, 412, 432, 488, 519, 553, 581, 646, 678, 715, 755, 791, 826, 859, 952, 987, 1015, 1049, 1080, 1113, (1199), 1211, 1302, 1332, 1348, 1364
- Pikonema alaskensis (yellow-headed spruce sawfly) 832, 866
- Pileocera spp. (pyraustid moths) 55
- Pilocrocis tripunctata (sweetpotato leaf roller) 1050, 1113, 1179
- Pimpla instigator (an ichneumon) 77
- Pineus pinifoliae (pine leaf chermid) 354, 796, 865, 958, 992, 1149
- Pineus strobi (pine bark aphid) 140, 320, 364, 374, 400, 434, 464, 492, 524, 616, 652, 721, 761, 992, 1022, 1407
- Pinnaspis aspidistrae (fern scale) 88, 181, 284, 402, 467, 528, 823, 926, 995, 1298
- Pinnaspis strachani
181, 210, 322, 372, 436, 527, 835, 1242, 1246, 1335, 1406
- Piophilha casei (cheese skipper) 384
- Pissodes approximatus
337, 434, 560, 733, 760, 1022
- Pissodes curriei
13, 337
- Pissodes nemorensis (deodar weevil) 254, 284, 337, 524
- Pissodes strobi (white-pine weevil) 337, 378, 464, 524, 557, 584, 616, 652, 736, 760, 796, 831, 865, 922, 958, 992, 1022, 1148, 1213
- Pityophthorus juglandis (a bark beetle) 1214
- Pityophthorus pseudotsugae
338
- Pityophthorus pulicarius
21
- Plagiodera spp.
72
- Plagiodera versicolora (imported willow leaf beetle) 337, 526, 618, 685, 761, 833, 867, 960, 994
- Plagiognathus albus vittiscutis (a plant bug) 752
- Plagionhammus spinipennis (a cerambycid beetle) 1093
- Plagithmysus newelli (a cerambycid beetle) 1094

- Planococcus citri
see Pseudococcus citri
- Plathypena scabra (green clover-worm) 166, 172, 361, 391, 427, 456, 480, 546, 604, 641, 672, 709, 785, 819, 828, 854, 911, 947, 983, 1010, 1046, 1075, 1108, 1141, (1163), 1176, 1206, 1291
- Platynota stultana (a leaf roller moth) 106, 243, 268, 579, 789, 915, 950, 1075, 1083, 1109, 1146, 1182, 1245, 1269, 1406, 1408, 1422
- Platyptilia carduidactyla (artichoke plume moth) 241, (1198)
- Platyptilia pica 21, 377
- Platytyellus fraternus (a mirid) 624
- Plectrodera scalator (cottonwood borer) 336
- Plemeliella abietina (a cecidomyiid seed midge) 895
- Pleroneura borealis (a sawfly) 351
- Pleurophorus caesus (a scarab) 636
- Plodia interpunctella (Indian-meal moth) 46, 108, 143, 221, 258, 286, 307, 368, 383, 470, 497, 629, 630, 768, 1060, 1088, 1157, 1187, (1202), 1229, 1230, 1231, 1232, 1233, 1300, 1320, 1337, 1399, 1410, 1426
- Plutella maculipennis (diamondback moth) 72, 175, 236, 326, 519, 553, 613, 647, 678, 826, 916, 987, 1348
- Podagrica puncticollis (a flea beetle) 80
- Podosesia spp. 377
- Podosesia syringae fraxini (ash borer) 21, 342
- Podosesia syringae syringae (lilac borer) 21, 342, 528, 687, 960
- Podura aquatica (a springtail) 323
- Poecilopapsus lineatus (four-lined plant bug) 733, 804, 835
- Pogonomyrmex spp. 458
- Pogonomyrmex barbatus (red harvester ant) 171, 280, 324, 548
- Pogonomyrmex californicus (California harvester ant) 21
- Pogonomyrmex occidentalis (western harvester ant) 171, 607, 732, 851, 880
- Polididus armatissimus (a reduviid bug) 1381, 1416
- Polistes spp. (vespid wasps) 301, 692, 998, 1028, 1059, 1087, (1202), 1248, 1299
- Polistes annularis 110
- Polistes exclamans 110, 1324
- Polistes rubiginosus 110, 1268
- Pollenia rudis (cluster fly) 307, 442, 1187, 1218, 1300, 1320, 1377, 1402, 1425
- Pollinia pollini (a coccid) 76
- Polycaon stouti (a false powder-post beetle) 47, 311
- Polydesmus inconstans (a milliped) 1394
- Polysphincta albigipes (an ichneumon) 418
- Popillia japonica (Japanese beetle) 16, 68, 152, 169, 174, 201, 206, 223, 248, 338, 369, 377, 378, 415, 416, 440, 513, 548, 566, 590, 607, 624, 638, 694, 705, 725, 736, 744, 752, 763, 770, 781, 790, 798, 803, 814, 823, 834, 840, 856, 873, 925, 932, 933, 947, 966, 983, 985, 987, 994, 999, 1013, 1029, 1043, 1061, 1089, 1122, 1158, (1163), 1176, 1188, 1215, 1270, 1273, 1338, 1368, 1411
- Porthetria dispar (gypsy moth) 14, 65, 76, 219, 283, 346, 435, 465, 474, 491, 526, 549, 556, 558, 609, 617, 685, 723, 736, 762, 797, 833, 867, 923, 959, 993, 1023, 1054, 1084, 1152, 1214, 1269, 1376
- Praon sp. (a parasitic braconid) 707
- Prays oleellus (olive moth*) 70, 75
- Premnotrypes spp. (weevils) 409, 502, 807, 1064, 1250
- Premnotrypes solani 1064
- Prionoxystus robiniae (carpenter-worm) 404
- Prionoxystus robiniae (carpenter-worm) 29, 342, 723, 867, 924, 1023, 1151, 1183
- Prionomerus calceatus
see Odontopus calceatus
- Prionus spp. 960, 992, 1313, 1331
- Prionus californicus (California prionus) 362, 554
- Prionus imbricornis (tile-horned prionus) 770
- Prionus laticollis (broad-necked root borer) 417, 966
- Pristiphora abietina (small spruce sawfly) 59
- Pristiphora californica (California pear-slug) 460
- Pristiphora erichsonii (larch sawfly) 352, 400, 685, 761, 832, 866, 922, 1150
- Pristiphora geniculata (mountain-ash sawfly) 352
- Prociphilus fraxinidipetalae 654
- Prociphilus fraxinifolii 354, 585, 662, 1407
- Prociphilus imbricator (beech blight aphid) 354, 1153
- Prociphilus tessellatus (woolly alder aphid) 354, 374, 654, 686, 696, 724, 835, 960, 1376
- Prociphilus venafuscus 401
- Prodenia spp. 1010, 1052, 1061
- Prodenia eridania (southern armyworm) 577, 736, 1050
- Prodenia litura (Egyptian cotton-worm) 80, 81, 807, 970
- Prodenia ornithogalli (yellow-striped armyworm) 47, 143, 166, 172, 185, 223, 233, 246, 259, 289, 318, 326, 370, 407, 443, 473, 483, 499, 501, 534, 555, 567, 568, 583, 591, 626, 627, 641, 661, 662, 672, 682, 696, 697, 709, 734, 735, 749, 771, 772, 782, 805, 806, 819, 828, 841, 842, 849, 859, 876, 877, 884, 934, 935, 936, 937, 967, 968, 969, 1001, 1002, 1032, 1033, 1061, 1062, 1063, 1090, 1091, 1092, 1123, 1124, 1140, 1160, 1161, 1176, 1190, 1191, 1211, 1221, 1251, 1252, 1275, 1303, 1339, 1356, 1370, 1380, 1394, 1412
- Prodenia praefica (western yellow-striped armyworm) 166, 233, 245, 851, 914, 1146, 1182, 1242, 1321, 1322
- Prorhinotermes simplex (a dampwood termite) 47, 68
- Prosapia bicincta (a spittlebug) 170, 375, 799, 1109, 1289
- Prosimulium sp. (a black fly) 299
- Prospaltella clypealis (a parasitic eulophid) 431
- Prospaltella opulenta 12, 217, 281, 282, 431, 752, 1144, 1265, 1363, 1422
- Prospaltella perniciosi 413
- Prostephanus truncatus (a bostrichid beetle) 383, 1228, 1232, 1354
- Protalebrella brasiliensis (a leafhopper) 93
- Proteoteras aesculana (an olethreutid moth) 526
- Protoparce spp. (hornworms) 226, 247, 520, 582, 649, 714, 718, 754, 756, 791, 825, 828, 918, 954, 986, 988, 1017, 1051, 1060, 1081, (1162), (1167), 1266
- Protoparce quinque-maculata (tomato hornworm) 326, 370, 407, 501, 534, 567, 568, 591, 626, 627, 661, 662, 696, 697, 734, 735, 754, 771, 772, 791, 805, 806, 825, 841, 842, 858, 862, 876, 877, 884, 934, 935, 936, 937, 952, 954, 967, 968, 988, 1001, 1002, 1014, 1062, 1063, (1068), 1090, 1091, 1123, 1124, 1144, 1160, 1161, 1189, 1190, 1191, 1221, 1251, 1252, 1275, 1303, 1321, 1322, 1380, 1412
- Protoparce sexta (tobacco hornworm) 226, 326, 370, 407, 501, 534, 567, 568, 591, 626, 627, 661, 662, 696, 697, 734, 735, 771, 772, 805, 806, 841, 842, 874, 876, 877, 884, 934, 935, 936, 967, 968, 969, 1001, 1002, 1032, 1033, 1062, 1063, 1090, 1091, 1123, 1124, 1160, 1161, 1190, 1191, (1199), 1221, 1251, 1252, 1275, 1303, 1321, 1322, 1339, 1356, 1370, 1380, 1412
- Protopulvinaria pyriformis (pyriform scale) 65, 209, 284, 322, 402, 436, 493, 528, 586, 799, 1350
- Protorthodes rufula (a noctuid moth) 368
- Proxenus mindara (a noctuid moth) 218, 244, 267, 717, 1049, 1212, 1333, 1349
- Podisus maculiventris (spined soldier bug) 933
- Psallus seriatus (cotton flea-hopper) 268, 364, 399, 432, 433, 455, 463, 484, 490, 523, 555, 615, 651, 682, 719, 759, 795, 830, 864, 882, 921, 957, (1280)
- Pseudaletia sp. 71

Pseudaletia unipuncta (armyworm)
27, 47, 68, 90, 108, 133, 134,
143, 148, 185, 223, 259, (273),
289, 326, 370, 407, 443, 458,
473, 482, 501, 514, 534, 547,
567, 568, 591, 605, 626, 627,
634, 661, 662, 667, 696, 697,
703, 734, 735, 743, 771, 772,
782, 805, 806, 816, 841, 842,
876, 877, 884, (892), 905,
934, 935, 936, 937, 938, 944,
967, 968, 969, 979, 1001, 1002,
1007, 1032, 1033, 1034, 1062,
1063, 1090, 1091, 1092, 1110,
1123, 1124, 1160, 1161, 1174,
1190, 1191, (1198), 1221, 1222,
1251, 1252, (1253), 1275, 1276,
1302, 1303, 1321, 1322, 1338,
1339, 1356, 1370, 1380, (1382),
(1383), 1412

Pseudaonidia clavigera (a mining
scale) 18, 30, 106, 255,
321, 365, 372, 561, 620, 726,
1154, 1184, 1298, 1350

Pseudaonidia duplex (camphor scale)
181, 1056, 1078, 1143, 1144,
1265, 1270

Pseudaonidia paeoniae
141, 1055

Pseudaulacaspis major
322, 1056

Pseudaulacaspis pentagona (white
peach scale) 66, 88, 106,
181, 199, 220, 284, 365, 372,
394, 402, 493, 516, 528, 579,
586, 620, 656, 689, 726, 914,
995, 1055, 1085, 1317, 1335,
1365, 1374, 1396, 1408

Pseudencyrtus sp. (an encyrtid)
971

Pseudocneorhinus bifasciatus
(a Japanese weevil) 338, 961,
1024

Pseudococcus spp.
75, 688, 1350

Pseudococcus adonidum (long-tailed
mealybug) 65, 284, 365, 528,
726, 1335, 1350, 1365, 1396

Pseudococcus boninsis (gray sugar-
cane mealybug) 971

Pseudococcus citri (citrus mealybug)
75, 210, 373, 436, 528, 621, 726,
926, 961, 1056, (1197), 1396

Pseudococcus cuspidatae
726

Pseudococcus importatus
620, 688

Pseudococcus maritimus (grape
mealybug) 71, 192, 206, 764,
995, 1048, (1197)

Pseudococcus microcirculus
65, 373

Pseudococcus nipae (coconut
mealybug) 88, 528

Pseudococcus obscurus
30, 373, 655, 1335, 1424

Pseudohylesinus spp. (bark beetles)
335

Pseudolucanus capreolus (a stag
beetle) 21, 472

Pseudopityophthorus pubipennis
(a bark beetle) 16

Pseudopiusia includens (a looper)
318, 1046, 1050, 1109

Psila rosae (carrot rust fly)
860, 1402

Psilocorsis quercicella (an
oecophorid moth) 1214

Psilopa leucostoma (an ephydrid
fly) 1080

Psoloessa delicatula (a grasshopper)
541, 633, 665

Psorophora spp. (mosquitoes)
293, 496, 531, 587, 691, 727,
765, 800, 836, 871, 928, 963,
996, 1087, 1298

Psorophora ciliata
291, 293, 1025, 1318, 1335, 1351

Psorophora confinnis
291, 292, 871, 1025, 1156, 1216,
1298, 1351, 1408

Psorophora ferox
292, 1025, 1216, 1351

Psorophora signipennis
871, 928, 1025

Psoroptes sp.
303

Psoroptes ovis (sheep scab mite)
302

Psorosina hammondi (apple leaf
skeletizer) 412

Psylla buxi (boxwood psyllid)
375, 656

Psylla pyricola (pear psylla)
193, 216, 362, 394, 430, 460,
474, 485, 516, 549, 578, 609,
642, 674, 712, 752, 788, 821,
855, 948, 1110, (1196), 1264

Psylla ribesiae
106

Psylla uncatoides
30, 106, 375, 656, 800, 926, 1317

Psylliodes sp.
1174

Psylliodes convexior
456

Psylliodes punctulata (hop flea
beetle) 520, 553, 580

Pterochlorus persicae (an aphid)
73

Pterocomma spp. (aphids)
493, 1215, 1245

Pterocomma smithiae
533, 925, 1154, 1270, 1350

Pterostichus sp. (a ground beetle)
305

Ptilinus ruficornis (an anobiid
beetle) 406

Ptinus spp.
183

Ptinus clavipes (brown spider
beetle) 183

Ptinus fur (white-marked spider
beetle) 1354

Ptinus ocellus
183, 1398

Ptinus villiger (hairy spider
beetle) 1233

Ptycholoma peritana (a leaf roller
moth) 43, 44

Pulvinaria aurantii
71

Pulvinaria floccifera
70, 373, 726

Pulvinaria innumerabilis (cottony
maple scale) 355, 586, 695,
724, 732, 762, 797, 925, 1184,
1215, 1332

Pulvinaria psidii (green shield
scale) 804, 824, 1085, 1335

Pulvinaria urbicola
402

Puto sp.
355

Puto cupressi (a mealybug)
355

Pycnarthrum hispidum (a bark beetle)
21, 208

Pyemotes ventricosus (straw itch
mite) 303

Pyralis farinalis (meal moth)
384, 470, 1060, 1248

Pyramidobela angelarum (an ethmiid
moth) 401

Pyraustomyia penitalis (a tachina
fly) 1337

Pyrilla aberrans
1285

Pyrilla perpusilla (Indian sugar-
cane leafhopper) 1285

Pyrilla perpusilla perpusilla
1286

Pyrilla perpusilla pusana
1285

R

Ramosia bibionipennis (strawberry
crown moth) 648

Ramosia tipuliformis (currant
borer) 580

Raphidopalpa foveicollis (red
pumpkin beetle) 79

Rasahus thoracicus (an assassin
bug) 301, 1377

"Recurvaria" spp.
343, 524, 684

"Recurvaria" milleri (lodgepole
needle miner) 13, 342, (1200)

"Recurvaria" piceaella (a needle
miner) 922

"Recurvaria" thujaella (a gelechiid
moth) 376, 1295

Reduvius personatus (masked hunter)
469, 872

Rehnia spinosa (a longhorn grass-
hopper) 770

Reticulitermes spp.
6, 222, 258, 287, 309, 323, 369,
404, 406, 439, 470, 531, 623,
689, 693, 730, 736, 931, 1080,
1085, 1120, (1202)

Reticulitermes flavipes (eastern
subterranean termite) 107,
143, 184, 222, 258, 309, 323,
362, 367, 369, 436, 470, 496,
531, 564, 589, 623, 730, 736,
1120, 1264, 1368, 1425

Reticulitermes hageni
47, 68, 1219

Reticulitermes hesperus (western
subterranean termite) 287,
309, 496, 730, 736, 1142, 1178

Reticulitermes tibialis
309, 369, 1120

Reticulitermes virginicus
21, 32, 283, 287, 367

Retinodiplosis inopis (a pine
resin midge) 1376

Retithrips syriacus (a thrips)
75

Rhabdophaga sp. (a gall midge)
727

Rhabdoscelus obscurus (New Guinea
sugarcane weevil) 1323

Rhabdopterus picipes (a leaf
beetle) 493

Rhagoletis cerasi (European
cherry fruit fly) 55, 70, 97,
260, 409, 502, 1340

Rhagoletis cingulata (cherry fruit
fly, cherry maggot) 643, 675,
750, 787, 1250

Rhagoletis cingulata indifferens
200, 579, 609

Rhagoletis completa (walnut husk
fly) 180, 205, 610, 985, 1048,
1111, 1177, (1198), 1209, 1264,
1292, 1348, 1374

Rhagoletis fausta (black cherry
fruit fly) 200, 643, 713

Rhagoletis pomonella (apple maggot, blueberry maggot) 194, 207, 713, 750, 787, 820, 854, 880, 913, 914, 948, 950, 984, 1012, 1047, 1078, 1110, 1142, 1154, 1177, 1209, 1240, (1254), 1347, 1362, 1402

Rhagoletis sauvies 205, 1240

Rhagoletotrypeta sp. (a fruit fly) 281

Rhinacloa forticornis (a mirid bug) 22, 290, 786, 804

Rhipicephalus sanguineus (brown dog tick) 32, 107, 183, 220, 285, 302, 438, 496, 563, 692, 838, 930, 1120, 1157, 1187, (1202), 1218, 1272, 1319, 1336, 1351, 1366, 1410, 1424

Rhizobius satellus (a coccinellid beetle) 413

Rhizoecus sp. 255

Rhizoecus cacticans 106, 620

Rhizoecus falcifer (ground mealybug) 1113, 1368

Rhizoecus kondonis 158

Rhizoecus leucosomus 436

Rhizoecus pritchardi 493

Rhizoglyphus echinopus (bulb mite) 380, 467, 1085

Rhizotrogus sp. (a chafer) 75

Rhodobaenus tredecimpunctatus (cocklebur weevil) 688, 1029

Rhopalosiphum berberidis 493, 560, 619, 835

Rhopalosiphum conii 493, 527

Rhopalosiphum fitchii (apple grain aphid) 11, 27, 43, 63, 87, 103, 115, 132, 139, 179, 191, 215, 251, 279, 315, 374, 392, 394, 418, 459, 482, 485, 547, 609, 642, 668, 705, (1168), 1207, 1239, 1274, 1312, 1329, 1345, 1347, 1373, 1393, 1405, 1421

Rhopalosiphum fitchii-padi complex 154, 514

Rhopalosiphum maidis (corn leaf aphid) 3, 11, 27, 43, (49), (53), 63, 76, 87, 103, 115, 132, 139, 153, 154, 179, 251, (272), 279, 315, 321, 359, 392, 412, 428, 440, (446), (447), 457, 482, 514, 547, 577, 606, 636, 668, 705, 745, 782, 783, 816, 850, 907, 925, 945, 980, 1007, (1035), (1036), (1037), 1044, 1074, 1106, 1121, 1141, 1158, 1174, 1206, 1238, (1277), 1289, 1329, 1345, 1361, 1373, (1382), 1393, 1401, 1421

Rhopalosiphum melliferum 560

Rhopalosiphum padi 76, 315

Rhopalosiphum pseudobrassicae see Hyadaphis pseudobrassicae

Rhopalosiphum rufiabdominalis 30, 132, 392, 1093, 1309

Rhopobota naevana (black-headed fireworm) 207, 856, (1254)

Rhyacionia spp. 1333, 1407

Rhyacionia buoliana (European pine shoot moth) 348, 349, 364, 376, 464, 557, 584, 652, 684, 721, 1244

Rhyacionia frustrana (Nantucket pine tip moth) 29, 349, 376, 400, 464, 491, 524, 557, 584, 652, 721, 760, 796, 831, 865, 922, 958, 1021, 1053, 1083, 1213, 1244, 1274, 1268, 1295, 1316

Rhyacionia pasadenana 796, 1244

Rhynchaenus rufipes (willow flea weevil) 1024, 1157, 1214

Rhynchites sp. 895

Rhynchites bicolor wickhami (a rose curculio) 688

Rhyssomatus sp. 807

Rhyssomatus palmicollis (a weevil) 242

Rhyzopertha dominica (lesser grain borer) 22, 81, 368, 383, 629, 1158, 1228, 1229, 1230, 1231, 1232, 1233, 1301, 1319, 1426

Rivellia quadrifasciata (a platystomatid fly) 933

Rodolia cardinalis (vedalia) 4, 78, 116, 258, 440, 460, 498, 551, 839, 931

Romalea microptera (eastern lubber grasshopper) 255, 483, 702

Rubsaamenia keeni (a cone resin midge) 347

S

Sabulodes caberata (omnivorous looper) 64, 106, 493, 857, 1364, 1424

Saissetia spp. 1210

Saissetia hemisphaerica (hemispherical scale) 66, 322, 436, 467, 493, 528, 561, 644, 688, 961, 995, 1056, 1210, 1246, 1335, 1350

Saissetia nigra 83, 926, 1056, 1317, 1335

Saissetia oleae (black scale) 14, 70, 71, 75, 77, 104, 209, 217, 322, 373, 395, 396, 402, 486, 493, 561, 644, 645, 710, 788, 823, 857, 950, 961, 1012, 1056, 1079, 1085, 1143, (1197), 1210, 1241, 1242, 1293, 1332, 1335

Sanninoidea sp. 197

Sanninoidea exitiosa (peach tree borer) 197, 218, 393, 430, 608, 673, 787, 822, 855, 949, 1048, 1209, 1312, 1347, 1355, 1406

Sanninoidea exitiosa graefi (western peach tree borer) 12, 115, 197, 751, (1199)

Saperda calcarata (poplar borer) 223, 288

Saperda candida (roundheaded apple tree borer) 516

Saperda tridentata (elm borer) 306

Sarcophaga sp. (a sarcophagid fly) 1041

Sarcophaga aldrichi 992

Sarcoptes sp. 322

Sarcoptes scabiei (itch mite) 367

Sathrobrotia badia 401

Sathrobrotia rileyi (pink scavenger caterpillar) 384

Scadra rufidens (a reduviid bug) 535

Scaphoideus luteolus (white-banded elm leafhopper) 924

Scaphytopus loricatus (a leafhopper) 1324

Scapticus griseus (a weevil) 409

Schistocerca spp. 665, 1300

Schistocerca albolineata 1300

Schistocerca americana (American grasshopper) 458, 1110

Schistocerca gregaria (desert locust) 69, 71, 73, 74, 78, 82

Schistocerca vaga 1300, 1366

Schizaphis graminum (greenbug) 3, 11, 27, 43, 63, 76, 84, 87, 103, 115, 131, 139, 179, 215, 251, 279, 315, 325, 359, 392, 399, 428, 457, 482, 410, (503), (504), (505), 514, 536, 547, 606, 636, 668, 705, 744, 783, 816, (1127), (1256), (1278), 1289, 1309, 1320, 1329, 1345, 1361, 1373, 1393, 1405, 1421

Schizolachnus lanosus (an aphid) 95

Schizolachnus piniradiatae 1022, 1316

Schizura concinna (red-humped caterpillar) 198, 203, 377, 713, 789, 803, 1048, 1118, 1177, (1199), 1264, 1334

Schizura ipomoeae 1118, 1154, 1184

Schreckensteinia festaliella 1381

Sciaphila duplex (an aspen leaf tier) 340, 348

Sciaphilus asperatus (a weevil) 305

Sciara spp. (sciarid midges) 804

Sciara hardyi 535

Sciara garretti 94

Sciara radicum 94

Sciara spatitergum 94

Sciopithes obscurus (a weevil) 244, 533, 860, 1118

Scirtothrips citri (citrus thrips) 211, 396, 461, 487, 518, 644, 675, 789, 857, 1048, 1078, (1196), 1212, 1293, 1313

Scolia sp. 1122

Scolia dubia (a scoliid wasp) 413, 418, 1060, 1122

Scolothrips sexmaculatus (a predaceous thrips) 875

Scolytus sp. 309

Scolytus mali (larger shot-hole borer) 22

Scolytus multistriatus (smaller European elm bark beetle) 334, 335, 400, 465, 492, 618, 654, 686, 723, 736, 923, 1150, 1269, 1297, 1334

Scolytus rugulosus (shot-hole borer) 44, 71, 201, 204, 459, 655, 913, 1077, 1142, (1198), 1209, 1347

Scolytus unispinosus (Douglas-fir engraver) 334, 464, 1295

Scolytus ventralis (fir engraver)
333, 334, 796, (1200), 1295,
1315, 1333
Scutellista cyanea (a parasitic
pteromalid) 77
Scutigera coleoptrata (house
centipede) 308
Scutigerella immaculata (garden
symphylan) 232, 246, 489, 641,
649, 706, 754, 861, 880, 916,
(1099), 1107, 1402
Scymnus testaceus (a lady beetle)
77
Sehirus cinctus (a cydnid bug)
513
Selenaspidus articulatus (a coccid)
83
Selenis monotropa (a noctuid)
1184
Selenothrips rubrocinctus (red-
banded thrips) 461
Sepedon macropus (a predatory
sciomyzid fly) 94
Septis apamiformis (a noctuid)
1043
Serica fimbriata (a scarab)
770
Sericothrips variabilis (a thrips)
672, 816
Sesamia cretica (durra stalk borer°)
71, 74, 76, 78, 895
Sesamia nonagriodes
97, 970
Shelfordella sp. (a cockroach)
74
Sibine stimulea (saddleback cater-
pillar) 301, 377, 1078, 1117,
1122, 1156, 1184
Sigara mckinstrii (a water boatman)
1354
Silvius pollinosus (a deer fly)
298
Simulium spp. (black flies) 299,
530, 588, 621, 692, 730, 929,
1299
Simulium arcticum
1402
Simulium aureum
563
Simulium damnosum
81
Simulium griseicolle
81
Simulium venustum
299
Simyra henrici (a noctuid moth)
150
Sinea diadema (an assassin bug)
498, 532, 565
Sipha argopyrella
132, 1357
Sipha flava (yellow sugarcane aphid)
429, 1289, 1309
Siphoninus granati (a whitefly) -
72
Sirex spp. (horntails)
351
Sirex areolatus
309
Sitodiplosis mosellana (wheat midge)
134, 783, 850
Sitona sp.
72
Sitona cylindricollis (sweetclover
weevil) 22, 164, (274), 389,
425, 453, 479, 511, 542, 575,
625, 946, 1362, (1386)
Sitona hispidula (clover root
curculio) 164, 280, 305, 389,
454, 479, 512, 542, 1239, 1263,
1291, 1330
Sitona lineata (pea leaf weevil)
231, 474, 853, 1016

Sitona scissifrons
164, 389, 479, 543, 602, 707,
1095, 1263
Sitophilus granarius (granary
weevil) 46, 72, 74, 382, 439,
630, 965, 1121, 1187, (1202),
1228, 1272, 1291, 1354, 1426
Sitophilus oryzae (rice weevil)
6, 46, 67, 72, 74, 81, 153, 184,
222, 382, 405, 628, 629, 630,
736, 930, 1106, 1228, 1229, 1230,
1231, 1232, 1233, 1273, 1291,
1367
Sitophilus zeae-mais
629, 1232
Sitotroga cerealella (Angoumois
grain moth) (49), (54), 383,
629, 1218, 1229, 1230, 1231,
1232, 1301, 1354
Smodicum cucujiforme (a cerambycid
beetle) 310
Smynthuroides betae (an aphid)
84, 754, 1210
Sogata orizicola (rice delphacid)
132, 849, 907, 1174, 1262
Sogatella kolophon (a delphacid
leafhopper) 1324
Solenopotes capillatus (a cattle
louse) 94, 107, 300, 736, 1409
Solenopsis molesta (thief ant)
706, 998, (1202)
Solenopsis saevissima richteri
(imported fire ant) 17, 67, 90,
223, 288, 417, 441, 515, 566,
607, 695, 706, 715, 770, 804,
840, 874, 1089, 1122, 1159,
1220, 1249, 1273, 1300, 1355,
1369, 1399, 1411, 1426
Solenopsis xyloni (southern fire
ant) 171, (1202), 1330
Spanioza erythrae (a psyllid)
82
Spanogonicus sp.
864
Spanogonicus albofasciatus (a black
cotton flea hopper) 269, 316,
399, 463, 574, 583, 682, 719,
759, 830, 864, 1243
Sparganothis spp. (leaf roller moths)
676, 695, 713, 789, 824, 856
Spathius prusias (a parasitic
braconid) 22
Sphaerocoris annulus (a stink bug)
83
Sphecius speciosus (cicada killer)
301, 413, 932, 966, 1000, 1061
Sphenophorus spp. (billbugs)
43, 135, 170, 636, 695, 705,
781, 943, 980, 1093
Sphenophorus callosus
153, 482, 577, 980, 1208
Sphenophorus cariosus
186, 1393
Sphenophorus cicatristriatus
983
Sphenophorus maidis (maize billbug)
153, 513, 606
Sphenophorus minimus
1147
Sphenophorus rectus
153
Sphenophorus venustus vestitus
17, 93, 186, 290, 1093, 1393
Sphenophorus zeae
153
Sphenoptera sp.
81
Sphenoptera gossypii (cotton stem
borer°) 80
Spilococcus cactearum (a mealybug)
373, 1408
Spilonota ocellana (eye-spotted
bud moth) 190, 484, 517, 556,
578, 608, 673, 711

Spilostethus pandurus (a lygaeid
bug) 82
Spissistilus festinus (three-
cornered alfalfa hopper) 92,
159, 173, 175, 317, 390, 455,
544, 603, 639, 672, 678, 708,
748, 818, 852, 909, 964, 981,
1009, 1045, 1076, 1107, 1140,
1175, 1207, 1239, 1262, 1289,
1311, 1329, 1346, 1393, 1405
Spodoptera exempta (nutgrass army-
worm) 82
Spodoptera exigua (beet armyworm)
72, 74, 75, 76, 81, 105,
116, 140, 165, 166, 175, 181,
233, 241, 267, 289, 315, 326,
370, 391, 407, 443, 462, 472,
482, 489, 493, 553, 682, 719,
758, 795, 798, 853, 881, 911,
920, 936, 947, 956, 967, 982,
991, 1000, 1001, 1002, 1010,
1020, 1032, 1052, 1062, 1081,
1082, 1090, 1091, 1115, 1123,
1124, 1146, 1160, 1179, 1181,
1190, (1198), 1211, 1212, 1220,
1221, 1242, 1251, 1252, (1257),
1262, 1266, 1273, 1275, 1294,
1303, 1313, 1316, 1321, 1322,
1332, 1339, 1348, 1356, 1368,
1370, 1374, 1380, 1394, 1412,
1423
Spodoptera mauritia acronyctoides
(lawn armyworm) 93, 290
Stagmomantis carolina (Carolina
mantis) 1121
Stator limbatus (a bruchid)
1184
Stegasta bosqueella (red-necked
peanutworm) 173, 672, 786, 819,
854, 911, 947, 1109, (1225),
1355
Stegobium paniceum (drugstore
beetle) 67, 108, 143, 258,
306, 382, 469, 628, 838, (1202),
1229
Steiroxys sp. (a katydid)
983
Stelidota geminata (a sap beetle)
152, 953
Stenotarsonemus pallidus (cyclamen
mite) 220, 245, 467, 680, 689,
716, 756, 793, 917, 1050, 1114,
1209, 1211, 1270, 1317, 1377
Stenomoma catenifer (a stenomid moth)
55, 260, 409, 970, 1064, 1340,
1418
Stenomoma manzanitae
401
Stephanitis spp.
374
Stephanitis pyri (pear lace bug°)
71
Stephanitis pyrioides (azalea lace
bug) 374, 764, 835, 869, 925,
1118, 1154
Stephanitis rhododendri (rhododen-
dron lace bug) 925
Stephanoderes hampei (coffee berry
borer°) 81, 1418
Stephanopachys substriatus (a
bostrichid beetle) 564
Sternochetus lapathi (poplar-and-
willow borer) 338, 867, 960
Sternostoma tracheacolum (a canary)
lung mite) 692
Stethorus picipes (a coccinellid
beetle) 1219
Stibadium spumosum (a noctuid moth)
1263
Stictoccephala bubalus (buffalo
treehopper) 192, 234, 1142
Stictopleurus punctiventris (a
coreid bug) 257

Stilpnotia salicis (satin moth)
347, 723, 797, 834
Stirellus obtutus (a leafhopper)
1291
Stomacoccus platani (a coccid)
355
Stomoxys calcitrans (stable fly)
296, 297, 402, 438, 469, 530,
562, 587, 621, 691, 729, 736,
767, 802, 837, 871, 929, 963,
997, 1027, 1059, 1086, 1120,
1156, 1185, 1218, (1281), (1282),
1298, 1319, 1335
Strymon melinus (cotton square
borer) 266, 362, 677, 719, 1112
Succinea ovalis (a land snail)
1025
Suleima helianthana (a sunflower
moth) 1011
Supella supellectilium (brown-
banded cockroach) 16, 143,
222, 306, 323, 404, 496, 564,
1186, (1202), 1218, 1319, 1367,
1425
Symphoromyia spp. (snipe flies)
589, 872
Sympiesis sp.
428
Sympiesis viridula (a parasitic
eulophid) 413, 1378
Synanthedon sp.
201, 1077
Synanthedon pictipes (lesser peach
tree borer) 198, 361, 393, 485,
517, 548, 578, 643, 751, 788,
821, 985, 1048, 1177, 1209, 1347
Synchlora denticularia (a geometrid
moth) 243
Syneta albida (a leaf beetle)
551
Syrbula admirabilis (a grasshopper)
846
Syringopais temperatella (cereal
leaf miner") 69
Systema blanda (pale-striped flea
beetle) 263, 488, 521, 582,
670, 707, 747, 785, 1050
Systema elongata (elongate flea
beetle) 263
Systema frontalis
175, 744, 861
Systema marginalis
338
Systema marginella
see Systema marginalis
Systema taeniata (a flea beetle)
165,

T

Tabanus spp.
297, 298, 402, 469, 530, 657,
692, 729, 736, 767, 837, 871,
929, 963, 997, 1027, 1056, 1087,
1120, 1156, (1200), 1218, 1298
Tabanus abactor
837
Tabanus atratus (black horse fly)
298, 802, 963
Tabanus calens
298
Tabanus equalis
298, 657
Tabanus fulvulus var. pallidescens
298
Tabanus lasiophthalmus
298, 729
Tabanus lineola (striped horse fly)
298, 530, 802, 837
Tabanus molestus
298

Tabanus nigrovittatus
298
Tabanus punctifer
997, 1087
Tabanus similis
298
Tabanus sonomensis
837
Tabanus sulcifrons
298, 802
Tabanus trimaculatus
298
Tabanus vittiger schwardti
298
Tabanus zythicolor
298
Tachypterellus consors cerasi (a
cherry curculio) 643
Tachysphex terminatus (a sphecoid
wasp) 660
Taeniothrips eucharis (a thrips)
1418
Taeniothrips inconsequens (pear
thrips) 191, (1196)
Taeniothrips orionis
239
Taeniothrips simplex (gladiolus
thrips) 375, 961, 995, 1025,
1397
Taniva albolineana (spruce needle
miner) 616, 652, 1149, 1213,
1268
Tarophagus proserpina (a taro leaf-
hopper) 1324
Tarsonemus confusus (a tarsonemid
mite) 182
Tarsonemus sertifer
4
Telenomus alsophilae (a scelionid
wasp) 1183
Telenomus basalis
535
Telmatoscopus albipunctatus (a moth
fly) 307
Tenebrio spp.
119, 382, 1188
Tenebrio molitor (yellow mealworm)
108, 382, 472, 1157, 1320
Tenebrio obscurus (dark mealworm)
382, 1230, 1232, 1233, 1368
Tenebroides sp./
324
Tenebroides mauritanicus (cadelle)
46, 81, 383, 839, 1158, 1188,
1228, 1229, 1230, 1231, 1232,
1233, 1248, 1272, 1301, 1320,
1333
Tenodera australasiae (a mantid)
1093
Tephritis sp. (a fruit fly)
625
Tetanops myopaeformis (sugar-beet
root maggot) 234, (448), (594),
646, 792, 953, 987, 1401
Tetraeuaesta obscuriventris (a
flower-feeding tephritid) 94,
625
Tetraleurodes spp. (whiteflies)
726, 1408
Tetraleurodes ursorum
726
Tetralicia sp. (a whitefly)
726
Tetralopha sp.
434
Tetralopha robustella (pine webworm)
342, 524, 763, 796, 1296, 1396
Tetralopha scortealis (lespedeza
webworm) 1109
Tetramorium spp.
308

Tetramorium caespitum (pavement
ant) 183, 222, 308, 417, 470,
497, 564, 623, 659, 693, 730,
768, 803, 838, 998, 1121, (1202)
Tetranychus spp.
30, 70, 74, 75, 154, 167, 239,
245, 252, 254, 270, 317, 380,
391, 427, 456, 462, 467, 522,
529, 561, 604, 615, 621, 641,
683, 695, 696, 717, 720, 727,
749, 759, 793, 819, 823, 828,
830, 835, 854, 863, 945, 947,
950, 955, 957, 991, 1011, 1020,
1021, 1025, 1053, 1056, 1074,
1083, 1085, 1109, 1116, 1118,
1141, 1245, 1377, 1333
Tetranychus atlanticus (strawberry
spider mite) 168, 174, 270,
379, 456, 583, 613, 615, 651,
672, 683, 720, 751, 759, 794,
830, 863, 882, 921, 947, 952,
983, 1053, 1083, 1109
Tetranychus canadensis (four-
spotted spider mite) 202, 751
Tetranychus cinnabarinus
270, 641, 720, 759, 794, 921
Tetranychus coccinus
756
Tetranychus desertorum (desert
spider mite) 270
Tetranychus frater
76
Tetranychus hydrangeae
1119
Tetranychus lobosus
245, 794
Tetranychus ludeni
380
Tetranychus mcdanieli
44, 196, 201, 202, 244, 641,
712, 984, 1013, 1077, 1110,
1178, 1292
Tetranychus pacificus (Pacific
spider mite) 201, 207, 239,
270, 683, 759, 794, 863, 882,
898, 921, 957, 991, (1196)
Tetranychus schoenei (Schoene
spider mite) 196, 759, 926,
947, 1406
Tetranychus sinhai
1401
Tetranychus telarius (two-spotted
spider mite) 12, 72, 75, 76,
79, 154, 167, 195, 196, 201, 202,
205, 216, 229, 232, 235, 244,
245, 246, 253, 270, 283, 363,
379, 380, 398, 433, (446), (447),
462, 489, 490, 494, 517, 522,
523, 546, 550, 554, 561, 587,
604, 607, 613, 621, 637, 641,
649, 656, 674, 683, 689, 709,
711, 716, 720, 746, 756, 759,
765, 783, 786, 794, 817, 820,
827, 830, 851, 854, 861, 863,
866, 875, 880, 882, 907, 913,
914, 921, 926, 945, 948, 953,
962, 966, 980, 983, 984, 988,
991, 1008, 1013, 1016, (1036),
(1037), (1038), 1044, 1048,
1056, 1074, 1077, 1080, 1085,
(1097), (1098), 1106, 1110,
1113, 1116, 1138, 1142, 1144,
1155, (1168), (1196), 1208,
1210, 1240, 1243, 1266, 1335,
1349, 1366, 1377, 1407, 1424
Tetranychus tumidus (tumid spider
mite) 106, 285, 456, 794
Tetranychus viennensis (a fruit-
tree spider mite") 897, 898
Tetranychus willamettei
see Eotetranychus willamettei
Tetropium velutinum (a roundheaded
borer) 335

- Tettigoniella cosmopolita (a leaf-hopper) 82
- Texananus gladius (a leafhopper) 141
- Thamnosphecia geliformis 798
- Thamnosphecia scitula (dogwood borer) 655, 725
- Thaumtopsopsis pectinifer (a banded webworm) 150
- Thaumetopoea sp. (a pine processionary moth) 76
- Theba pisana (white garden snail) 97, 260, 409, 807, 896, 970, 1064, 1340, 1418
- Thecabius populiconduplifolius (an aphid) 961
- Thecabius populimonilis 354
- Therioaphis maculata (spotted alfalfa aphid) 11, 27, 43, 63, 76, 77, 78, 87, 103, 115, 157, 158, 216, 252, 280, 317, 361, 390, 426, 454, 477, 510, 544, 574, 603, 639, 671, 708, 747, 783, 817, 851, 908, 945, (973), 981, 1008, 1044, 1076, (1101), 1107, 1138, 1174, (1197), 1206, 1238, 1261, 1274, (1279), 1289, 1309, 1320, 1329, 1345, 1361, 1373, 1393, 1405, 1421
- Therioaphis riehmii (sweetclover aphid) 72, 639, 1329, 1345, 1361, 1373
- Therioaphis tiliae 725, 1215, 1246
- Therioaphis trifolii (yellow clover aphid) 390, 426, 477, 544, 1261, 1329, 1345
- Thermobia domestica (firebrat) 287
- Tholagmus flavolineatus (a stink bug) 77
- Tholiera reversalis (a pyraustid moth) 1216
- Thrips tabaci (onion thrips) 72, 218, 229, 232, 235, 239, 240, 519, 613, 679, 746, 755, 792, 827, 860, 873, 917, 953, 987, 1017, 1050, (1100), 1145, (1254)
- Thyridopteryx ephemeriformis (bagworm) 349, 376, 560, 586, 619, 655, 680, 687, 724, 763, 798, 834, 868, 882, 924, 960, 994, 1024, 1055, 1084, 1154, 1215
- Thyrillus pacificus (a grass bug) 170, 514, 607, 668
- Tinea pellionella (casemaking clothes moth) 46, 307, 497, 768, 998, 1219
- Tineola bisselliella (webbing clothes moth) 307, 497, 659
- Tipula paludosa 261, 1402
- Tipula simplex (range crane fly) 171
- Tischeria ceanothi 994
- Tischeria omissa (a tischeriid leaf miner) 1183
- Tortrix excessana (a tortricid moth) 895, 970, 1250
- Tortrix pallorana 340, 687
- Toumeyella sp. 1396
- Toumeyella liriodendri (tuliptree scale) 255, 355, 686, 1085, 1396
- Toumeyella numismaticum (pine tortoise scale) 88, 355, 557, 586, 652, 656, 722, 832, 992
- Toumeyella parvicornis 656, 866, 1085
- Toumeyella pini 22, 1024
- Toumeyella pinicola 106
- Toxoptera aurantii (black citrus aphid) 70, 75, 82, 88, 210, 518, 1241, 1313, 1376, 1424
- Toxoptera graminum see Schizaphis graminum
- Toxotrypana curvicauda (papaya fruit fly) 431, 676, 823
- Trachyphloeus bifoveolatus 305, 716, 1113, 1248
- Trachyrhachys kiowa (a grasshopper) 541, 573, 665, 845, 902
- Tremex columba (pigeon tremex) 351
- Trialeurodes spp. 173, 228
- Trialeurodes abutilonea (banded-wing whitefly) 645
- Trialeurodes floridensis (avocado whitefly) 44
- Trialeurodes vaporariorum (greenhouse whitefly) 83, 117, 436, 487, 528, 583, 586, 1335
- Trialeurodes vittatus (grape whitefly) 1265
- Triatoma sp. 301
- Triatoma protracta 301
- Triatoma sanguisuga (bloodsucking conenose) 257, 301, 730, 802, 998, 1028, 1058
- Tribolium spp. 303, 382
- Tribolium castaneum (red flour beetle) 46, 74, 81, 222, 305, 368, 382, 628, 629, 630, 873, 1158, 1228, 1229, 1230, 1231, 1232, 1233, 1219, 1248, 1272, 1301, 1319, 1320, 1354
- Tribolium confusum (confused flour beetle) 6, 46, 70, 81, 221, 258, 305, 324, 382, 497, 731, 1158, 1219, 1228, 1229, 1230, 1231, 1232, 1233, 1248, 1301, 1320, 1337, 1354, 1426
- Trichiotinus piger (a scarab) 725
- Trichobaris trinotata (potato stalk borer) 248
- Trichodectes spp. (cattle chewing lice) (1199)
- Trichoplusia spp. 991, 1020
- Trichoplusia ni (cabbage looper) 44, 77, 116, 140, 166, 172, 175, 181, 226, 233, 235, 236, 239, 241, 246, 267, 318, 427, 456, 493, 501, 519, 534, 552, 568, 581, 582, 583, 604, 613, 614, 647, 678, 682, 715, 725, 736, 772, 795, 798, 826, 830, 842, 859, 862, 864, 876, 877, 884, 916, 918, 920, 924, 934, 935, 936, 947, 952, 956, 967, 968, 969, 982, 986, 990, 1000, 1001, 1002, 1010, 1014, 1019, 1032, 1033, 1046, 1050, 1052, 1061, 1062, 1063, (1065), (1066), 1075, 1082, 1090, 1091, 1092, 1109, 1113, 1115, 1123, 1124, 1145, 1146, 1160, 1161, 1176, 1179, 1181, 1190, 1191, (1198), 1206, 1211, 1212, 1221, 1238, 1242, 1251, 1252, (1257), 1266, 1275, 1293, 1302, 1303, 1313, 1315, 1321, 1322, 1332, 1338, 1339, 1348, 1356, 1364, 1370, 1375, 1380, 1394, 1407, 1412, 1423
- Trichopoda pennipes (a parasitic tachina fly) 186, 187, 535, 1324, 1381, 1416
- Trifidaphis phaseoli 84
- Trigonopeltastes delta (a scarab) 378, 874
- Trigonotylus sp. 482, 513
- Trigonotylus ruficornis (a plant bug) 133, 1095
- Trimerotropis sp. (a grasshopper) 814
- Trimerotropis pallidipennis 814
- Trionymus diminutus (a mealybug) 30, 220
- Triops sp. (a tadpole shrimp) 419
- Triops longicaudatus 135, (1199), 1411
- Trioxys angelicae (a parasitic braconid) 413
- Trioxys pallidus 413
- Trioxys utilis 78
- Trioza magnoliae (a psyllid) 493
- Trisetacus quadrisetus (an eriophyid mite) 66, 356, 1377
- Trishormomyia crataegifolia (a cockscomb gall) 1025
- Trogoderma spp. 258, 1337
- Trogoderma glabrum 381, 732, 931
- Trogoderma granarium (khapra beetle) 47, 55, 70, 72, 74, 80, 97, 258, 261, 381, 383, 409, 497, 502, 629, 807, 896, 970, 1064, 1249, 1250, 1340, 1418
- Trogoderma inclusum 258, 304
- Trogoderma parabile 258, 381, 497
- Trogoderma sternale 304, 1333
- Trogoxylon prostomoides (a powder-post beetle) 417, 1378
- Tropisternus lateralis binotatus (a water scavenger beetle) 535
- Tychius stephensi (a clover weevil) 512
- Tylozygus bifidus (a leafhopper) 1291
- Typhaea stercorea (a hairy fungus beetle) 383, 629, 1232
- Typhlocyba pomaria (white apple leafhopper) 712, 914
- Typhlodromus aequalis (a phytoseiid mite) 413
- Typhlodromus jackmickleyi 32
- Typhlodromus rickeri 413
- Tyria jacobaeae (a cinnabar moth) 413
- Tyrophagus sp. 1246
- Tyrophagus longior 380
- Tyrophagus putrescentiae (mushroom mite) 303, 369, 839
- U**
- Udea profundalis 218, 268, 791, 1016, 1050, 1080, 1188, 1249, 1270, 1348
- Udea rubigalis (celery leaf tier) 268, 1113, 1268, 1333, 1349

Ufeus spp. (noctuid moths)

347

Unaspis sp.

365

Unaspis citri (a snow scale)

28, 104, 181, 210, 579, 1242,
1313, 1423

Unaspis euonymi (euonymus scale)

65, 105, 117, 141, 321, 365,
372, 467, 527, 560, 586, 620,
688, 764, 835, 868, 925, 926,
961, 995, 1024, 1055, 1118,
1154, 1216, 1246, 1317, 1350,
1366, 1376

Uranotaenia lowii (a mosquito)

291

Uranotaenia sapphirina

1023, 1056, 1217, 1351

Urbanus proteus (bean leaf roller)

22

Urentius echinus (a tingid)

79

Urocerus flavicornis (a horntail)

309

Uroplata girardi (a lantana hispid)

94

V

Vallonia pulchella (a snail)

66, 1355, 1369, 1379

Vanessa cardui (painted lady)

418

Vanessa carye

925

Vasates ligustri

380

Vasates quadripedes (maple bladder-

gall mite) 356, 466, 492,
527, 559, 586, 618, 655, 724,
868, 994

Vejovis sp. (a scorpion)

872

Vejovis boreus

692, 732

Vesiculaphis caricis (an aphid)

374

Vespa spp. (vespid wasps)

964, 1157

Vespa crabro germana (giant hornet)

418

Vespa mima sequoiae (sequoia pitch

moth) 1349

Vespula spp. (vespid wasps)

301, 964, 1028, 1059, 1087,
1272, 1299, 1366

Vespula maculifrons

1338

Vespula pennsylvanica

301

Vespula vulgaris

1268

Veterna abyssinica (a stink bug)

83

Vitacea polistiformis (grape root

borer) 205, 252, 363, 808,
823

Vitula edmandsae serratilineella

(dried-fruit moth) 90

Virilietta decorata (an anobiid

beetle) 4

W

Wohlfahrtia magnifica (a spotted
flesh fly) 275, 276

X

Xanthippus corallipes latefasciatus
(a grasshopper) 541, 665

Xenochalepus dorsalis (locust leaf

miner) 305, 338, 559, 585,
618, 655, 674, 685, 722, 761,
797, 822, 833, 867, 923, 1023,
1055, 1084, 1150, 1183, 1214,
(1385)

Xerociris wilsoni (a noctuid moth)

377

Xiphydria maculata (a wood boring

sawfly) 566

Xyleborus compactus (a bark beetle)

290

Xyleborus morstatti

22, 93

Xyleborus politus

694

Xyleborus saxeseni

694

Xylobiops basilaris (a false powder-
post beetle) 619, 662, 1111,
1177

Xylocopa tabaniformis orpifex

623, (1202)

Xylocopa virginica (carpenter bee)

309, 439, 470, 499, 564, 623,
693, 1320

Xylotrechus colonus (rustic borer)

306

Xylotrechus undulatus

659

Z

Zadiprion rohweri (a pine sawfly)

351, 993

Zaprionus vittiger (a vinegar fly)

82

Zeadiatraea grandiosella (south-

western corn borer) 11, 103,
139, 146, 179, 215, 279, 315,
391, 457, 514, 546, 605, 634,
703, 742, 815, 849, 904, 944,
979, 1007, 1043, 1105, 1173,
1206, 1237, 1262, (1277), 1291,
1311, 1346, 1421

Zeiraphera ratzeburgiana (spruce

bud moth) 348

Zelleria haimbachi (a pine needle-

sheath miner) 14, 344, 958

Zelus bilobus (an assassin bug)

660

Zelus cervicalis

110

Zelus exsanguis

110

Zelus renardi

32

Zeuzera pyrina (leopard moth)

71

Zonabris oleae

see Mylabris oleae

Zonosemata electa (pepper maggot)

229, 826, 858, 985, 1144

Zootermopsis angusticollis

(Pacific dampwood termite)

309, 765, (1202)

Zophodia convolutella (gooseberry

fruitworm) 518

Zygorbata sp. (an oribatid mite)

171

Corrections in Volume 13

Page	Correction	Page	Correction
45	Coccids in Florida: Line 1: Diaspis boisduvalli should read Diaspis boisduvalii. Line 3: Diaspis echinococcus should read Diaspis echinocacti.	431	EUROPEAN RED MITE should read EUROPEAN RED MITE (<u>Panonychus ulmi</u>).
65	Coccids in Florida: Line 6 from bottom: Diaspis boisduvalli should read Diaspis boisduvalii.	465	LEAF ROLLER MOTHS - NEW YORK - Argyrotaenia semipurpurana should read <u>Argyrotoxa</u> semipurpurana.
77	Other Field Crop Insects: Line 2: A PYRALID (Nephopteryx sp.) should read A <u>PHYCITID</u> (Nephopteryx sp.).	499	STRIPED BLISTER BEETLE (Epicauta vittata) should read A BLISTER BEETLE (Epicauta <u>sp.</u>).
77	Ornamental and Forest Insects: Line 6: A MEMBRACID (Oxyrachis tarandus) should read (Oxyrhachis tarandus).	528	LEAF ROLLER MOTHS - LOUISIANA - Archips influmatana should read Archips infumatana.
83	Line 7: .a PLANT-FEEDING LADY BEETLE (Epilachna fulvosignata)... should read (Epilachna fulvosignata).	536	A PYRALID MOTH (Cryptoblabes aliena) should read A <u>PHYCITID</u> MOTH (Cryptoblabes aliena).
97	PEACH FRUIT MOTH (Carposina nipponensis (Wlsm.)) should read (Carposina niponensis (Wlsm.)).	554	STRAWBERRY LEAF ROLLER (Archips comptana fragariae) should read (<u>Ancylys</u> comptana fragariae).
106	EASTERN TENT CATERPILLAR (Malacosoma americana) should read (Malacosoma americanum).	619	APHIDS: Line 3 from bottom: Melanocallis kahawaluokalani should read <u>Myzocallis</u> kahawaluokalani.
135	Paragraph 1, line 3: .a CECIDOMYID should read a CECIDOMYID.	676	A CRANBERRY FRUITWORM (Epiglaea apiata) should read A CRANBERRY <u>BLOSSOMWORM</u> (Epiglaea apiata).
171	Paragraph 4, line 1: Amblyseus sp. should read Amblyseius sp.	688	COCCIDS - ALABAMA - Neolecanium parvucornum should read Neolecanium <u>cornuparvum</u> .
171	Paragraph 5: A BUD MITE (Aceria paracalifornicus) should read (Aceria paracalifornica).	714	COLORADO POTATO BEETLE: Line 4: (Doryphorophaga dorypharae) should read (Doryphorophaga doryphorae).
186	Paragraph 5, line 1: ...a large SPIDER (Agriope sp.)... should read (<u>Argi</u> ope sp.).	721	WHITE-SPOTTED SAWYER (Monochamus scutellarius should read (Monochamus scutellatus).
242	Sweetpotato Insects - Highlights: Line 3: Rhyssomatus palmaricollis should read Rhyssomatus palmicollis.	729	TABANIDS - FLORIDA - Agrostocerus megerlei should read <u>Agkistrocerus</u> megerlei.
280	SNAILS - OREGON - Oxychilus dreparnaldi should read Oxychilus <u>draparnaldi</u> .	731	LADY BEETLES: Line 3: Coccinella sanguinea should read <u>Cycloneda</u> sanguinea.
288	CORRECTIONS - CEIR 13(11):232 and 240 - Onychirus should read Onychiurus.	762	CATALPA SPHINX (Ceratomia catalpae) should read (Ceratoma catalpae).
298	Paragraph 3, line 4: T. fulvulus var. pallidescens should read T. fulvulus var. pallidescens.	769	AN ICHNEUMON (Magarhyssa sp.) should read (<u>Me</u> garhyssa sp.).
306	Paragraph 3, line 1: (Gnathotrichus materiarius) should read (Gnathotrichus materiarius).	804	SCIARID MIDGES (Sciaria spp.) should read (Sciara spp.).
306	Last paragraph, last line: (Ceutophilus spp.) should read (<u>Ceuth</u> ophilus spp.).	868	COCCIDS - PENNSYLVANIA - Diaspis liquidambaris should read <u>Aspidiotus</u> liquidambaris.
311	Line 3: Dendrobiella aspara should read Dendrobiella <u>aspera</u> .	944	Paragraph 1, line 6: Junonia coenia should read Junonia <u>evarete</u> coenia.
338	Paragraph 6, line 7: ...a FLEA BEETLE (Systema marginella) should read (Systema <u>marginalis</u>).	987	TORTOISE BEETLES - Metriona bivittata should read <u>Agroiconota</u> bivittata.
348	Paragraph 3, line 1: Eucosma sonoma should read Eucosma <u>sonomana</u> .	999	A TYROGLYPHID MITE (Aleuroglyphus ovatus) should read AN <u>ACARID</u> MITE (Aleuroglyphus ovatus).
365	COCCIDS - MARYLAND - E. euonymi should read <u>E.</u> euonymi.	1014	A SPRINGTAIL (Onychiurus fimentarius) should read (Onychiurus <u>fi</u> mentarius).
373	Paragraph 3, line 1: Planococcus citri should read <u>Pseudococcus</u> citri.	1025	A COCKSCOMB GALL (Trishormonyia crataegifolia) should read (Trishormomyia crataegifolia).
380	ERIOPHYID MITES: Lines 7 and 8: Paracalcarus podocarpi should read Paracalacarus podocarpi.	1080	AN EPHYRID FLY (Psilopa leucostoma) should read AN <u>EPHYDRID</u> FLY (Psilopa leucostoma).
416	Paragraph 2, line 8: (Glarensis knausi) should read (Glarensis <u>knausi</u>).	1118	NOTODONTID MOTHS - KANSAS - Schizura ipomeae should read Schizura <u>ipomoeae</u> .
		1151	A CERAMBYCID BEETLE (Glycobius speciosus) should read <u>SUGAR-MAPLE BORER</u> (Glycobius speciosus).

Page	Correction	Page	Correction
1152	First paragraph, line 2: A geometrid moth should read <u>BRUCE SPANWORM</u> .	1223	AN ANTHRIBID BEETLE (<u>Araecorynus cumingii</u>). should read (<u>Araecorynus cumingi</u>).
1154	A NOTODONTID MOTH (<u>Schizura ipomeae</u>) should read (<u>Schizura ipomoeae</u>).	1225	Line A., red-headed peanutworm should read, red- <u>necked</u> peanutworm.
1159	A BUTTERFLY (<u>Cisseps fulvicollis</u>) should read A <u>SYNTOMID MOTH</u> (<u>Cisseps fulvicollis</u>).	1293	CITRUS FLAT MITE (<u>Brevipalpus citri</u>) should read (<u>Brevipalpus lewisi</u>).
1188	DARKLING BEETLES - ALABAMA - <u>Letheticus oryzae</u> should read <u>Latheticus oryzae</u> .	1338	VESPID WASPS - VIRGINIA - <u>Vespa maculifrons</u> should read <u>Vespula maculifrons</u>
1211	CYCLAMEN MITE (<u>Stenotarsonemus pallidus</u>) should read (<u>Steneotarsonemus pallidus</u>).		

